



**COMMITMENT & INTEGRITY
DRIVE RESULTS**

35 New England Business Ctr.
Suite 180
Andover, Massachusetts 01810
www.woodardcurran.com

T 866.702.6371
T 978.557.8150
F 978.557.7948

July 20, 2011

Ms. Kimberly Tisa
PCB Coordinator
U.S. Environmental Protection Agency Region 1
5 Post Office Square – Suite 100
Boston, Massachusetts 02109-3912

Re: PCB Remediation Approach Outline
Tobin Hall Concrete Deck – University of Massachusetts
Amherst, Massachusetts

Dear Ms. Tisa:

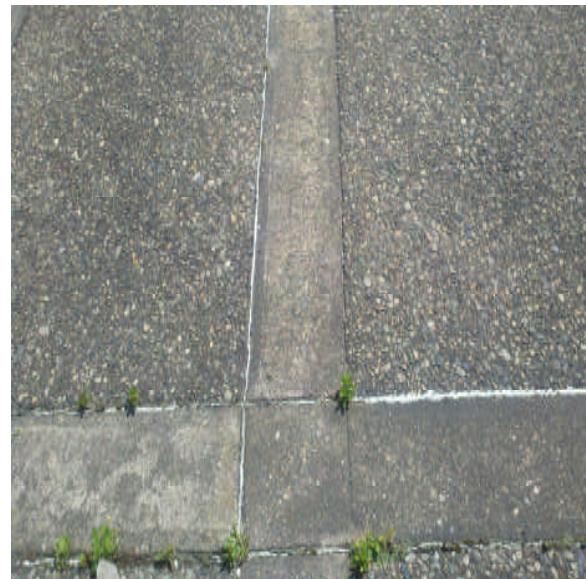
On behalf of the University of Massachusetts (UMass), Woodard & Curran (W&C) has prepared this remedial approach outline for the cleanup and disposal of polychlorinated biphenyl (PCB) wastes in accordance with 40 CFR Part 761.62 and 761.61. This submittal details the proposed remedial approach for PCB containing materials that will be disturbed during the removal of the concrete decking and retaining wall adjacent to the west side of Tobin Hall. The removal of the decking is part of the overall Commonwealth Honors College Residential Complex construction project at the UMass Amherst Campus in Amherst, Massachusetts. The removal of the decking is planned to be conducted as part of the initial site preparation activities scheduled to be completed over the next three weeks.

This submittal includes initial characterization sampling data, a sampling plan for additional characterization, a discussion of remedial objectives and cleanup levels, the proposed remedial approach, proposed verification sampling activities, and a schedule for completing the work.

Background

The project site consists of a approximately 150 foot long by 46 foot wide concrete deck and retaining walls on the west side of Tobin Hall on the UMass Amherst campus (see attached Figure 1). The concrete decking is approximately five inches thick and comprised of concrete aggregate slabs separated by concrete bands. Two elevated concrete planting beds are located in the central portion of the decking. Concrete retaining walls are located along the north, south, and west sides of the decking as well as on the far north and south ends of the east side. The remainder of the east side of the decking is bordered by Tobin Hall itself.

Caulking is present within some concrete to concrete expansion joints of the decking, between the concrete decking and concrete retaining walls, between the concrete decking and concrete planting beds, and between the



Typical concrete-concrete decking expansion joint



concrete decking and the concrete walls of Tobin Hall. There are approximately 1,325 linear feet (l.f.) of caulking within the project area.



View of Tobin Decking facing north: The concrete retaining wall on the west and north sides of the pad are visible in the photo. The northern planting bed is visible in upper right hand corner.

The overall approach for the remediation is to follow a waste segregation approach for all materials scheduled for removal and off-site disposal, including removal of the concrete decking, and removal of portions of the retaining walls and landscaping beds adjacent to caulked joints. The section of exterior wall along Tobin Hall adjacent to the eastern side of the decking is not scheduled for removal and will be managed in-place through the application of an encapsulating barrier. A general layout of the concrete decking including the location of the caulked joints and proposed segregation areas (see below) is presented on the attached Figure 2.

Initial Characterization and Verification Sampling Approach

Three samples of caulking were collected for PCB analysis on June 21, 2011. Analytical results indicated that the concentrations of PCBs in caulking were 210, 640, and 760 ppm. Based on these results, all caulking within the project work area was determined to meet the definition of a PCB Bulk Product waste and subject to remediation in accordance with 40 CFR 761.62.

A conceptual remedial approach was developed for the removal and off-site disposal of the caulking and adjacent building materials. This conceptual approach included the removal and off-site disposal of all caulking and the segregation of concrete scheduled for off-site disposal as either ≥ 50 ppm PCB waste or general construction debris. Concrete materials scheduled to remain in-place (Tobin Hall walls) are to be managed in-place through the application of a barrier encapsulant. In support of this conceptual plan, additional characterization and verification samples of concrete were collected. A summary of the samples collected and the analytical results is as follows:

- Concrete Decking Characterization Sample Results – To establish the segregation lines away from the concrete to concrete decking joints, 48 samples of concrete were collected at a distance of one foot from the caulked joints. A summary of analytical results is as follows:
 - 40 samples reported PCB concentrations as non-detect (Reporting limits of 0.10 ppm or less); and
 - 8 samples reported PCB concentrations as < 1 ppm (PCB concentrations ranged from 0.14 to 0.85 ppm with an average concentration of 0.39 ppm).



- Concrete Retaining Wall Characterization Samples – To establish the segregation lines vertically on the retaining walls and planting beds, three samples were collected from the concrete retaining walls at a distance of one inch above the existing caulked joint. PCBs were reported as non-detect in the three samples collected (< 0.10, < 0.091, and < 0.095 ppm).
- Concrete Retaining Wall Verification Samples – To establish the depth of removal for waste segregation, concrete to a depth of 2 to 3 inches was removed from three locations along the caulked joint. Following removal, verification samples were collected of the remaining concrete. Analytical results indicated that the concentrations of PCBs were non-detect (<0.095 ppm) or < 1 ppm (0.11 and 0.32 ppm).

All samples were transported to the laboratory under standard Chain of Custody procedures. Samples for PCB analyses were extracted using USEPA Method 3540C (Soxhlet extraction) and analyzed for PCBs using USEPA Method 8082. Analytical results are summarized on Table 1 of this letter. The laboratory reports are provided as Attachment 1 to this letter.

Three duplicate samples and three equipment blank samples were collected as part of the concrete decking sampling program. Duplicate results were consistent with the associated primary sample (all results were non-detect) and PCBs were not reported in the equipment blank samples collected. All data is currently undergoing data validation. Final validated results will be included in the PCB remediation plan to be submitted.

Proposed Remedial Approach

Based on these analytical results, a remedial approach has been developed for the removal and off-site disposal of the concrete decking and associated materials and the in-place management of concrete on the exterior wall of Tobin Hall. In general, the remedial approach includes the disposal of caulking as PCB bulk product waste under 40 CFR 761.62, the removal and disposal of PCB remediation waste in accordance with 40 CFR 761.61(a), and a risk-based approach for the in-place management of PCB remediation waste that cannot be removed under 40 CFR 761.61(c). A summary of the remediation approach for each of the affected media is included below.

≥ 50 ppm PCB-Containing Caulking

All caulking within the project work area has been classified as PCB Bulk Product Waste. There are approximately 1,325 l.f. of caulking within the project area. Removal and off-site disposal of caulking is to be conducted in accordance with 40 CFR 761.62. All caulking is to be removed for off-site disposal as ≥ 50 ppm PCB waste.

Concrete Decking

The remediation of PCB impacted concrete decking is to be conducted in accordance with 40 CFR 761.61 (a). Concrete decking materials are to be segregated for disposal as either ≥ 50 ppm PCB waste or general construction debris. Based on the configuration of the concrete to concrete caulked joints, materials within twelve portions of the decking (approximately 20 foot by 20 foot sections) have been targeted for segregation as general construction debris. The locations of these areas are depicted on the attached Figure 2.

As noted above, 48 characterization samples were collected at a sample frequency of one sample per 20 linear feet (l.f.) at a distance of one foot from caulked joints within each of the twelve areas designated for segregation. This sampling frequency corresponded to the collection of one sample from each of the four sides within all twelve of the areas.

Based on these analytical results, segregation of the decking materials will be performed through saw cutting along the joints at the segregation line. Portions of the concrete decking within the one foot cut line are to be removed for off-site disposal as ≥ 50 ppm PCB wastes. Concrete designated for disposal as ≥ 50 ppm PCB waste will be removed following the saw cutting to provide access to the underlying



soils. Remaining portions of the concrete (i.e., those designated for disposal as general construction debris) will remain in-place until underlying soils have been remediated as described below.

Underlying Soils

The remediation of PCB impacted soils is to be conducted in accordance with 40 CFR 761.61(a). Beneath each of the caulked joints, six inches of underlying soils will be removed for off-site disposal as ≥ 50 ppm PCB waste. The excavation of the initial six inches will be conducted during the removal of the caulking and ≥ 50 ppm concrete and managed as a single waste stream. Approximately 1,000 l.f. of soil will be removed to a depth of six inches within the two-foot wide trenches (one foot on either side of each joint).

Following excavation, verification soil samples will be collected at a frequency of one sample per 20 l.f. of excavation for a total of 50 samples. Soil samples will be collected using hand trowels in accordance with generally accepted procedures for collection surface soils for the purpose of environmental sampling. Samples will be collected from a depth of 0 to 3 inches below the base of the excavation.

Results of the verification sampling will be evaluated as follows:

- Total PCBs ≤ 1 ppm – No additional excavation required; and
- Total PCBs > 1 ppm – Additional excavation to be conducted to the next “clean” sample point in either direction. Additional verification samples to be collected at off-set locations following excavation. The extent of additional removal and the frequency of verification samples will be evaluated based on the overall data set and subject to EPA approval.

Concrete Retaining Walls and Planting Beds

The remediation of PCB impacted concrete on retaining walls and planting beds scheduled to be removed is to be conducted in accordance with 40 CFR 761.61(a). Concrete from retaining walls and planting bases is to be segregated for off-site disposal as either ≥ 50 ppm PCB wastes or as general construction debris. Based on the analytical data collected as part of the initial planning, concrete materials in direct contact with and to a distance of one inch from the caulked joints (above and below the joint) and to a depth of three inches will be removed through chipping and hammering for off-site disposal as ≥ 50 ppm PCB waste. The extent of removal may be increased based on the remediation contractor’s selected removal methods. The length of the caulked joint along the retaining walls totals approximately 280 l.f., and the length of the caulked joint around each planting bed measures approximately 56 l.f. for a total of 112 l.f. around the two planting beds.

To confirm the required extent of removal above and below the caulked joints, additional characterization samples will be collected at a frequency of one sample per 20 l.f. of caulked joint, for a total of 28 samples from the retaining walls (14 samples one inch above the joint, 14 samples one inch below the joint), and 12 samples from the planting beds (six samples one inch above the joint, six samples one inch below the joint). Results of the characterization samples will be evaluated as follows:

- Total PCBs ≤ 1 ppm – Segregation to be conducted to a distance of 1 inch above and below the caulked joint; and
- Total PCBs > 1 ppm – Additional characterization samples to be collected at a greater distance from the caulked joint. Additional concrete removal to be conducted to the first “clean” sample point in either direction. The required sample frequency of additional characterization samples and the extent of removal for segregation will be evaluated based on the overall data set and subject to EPA approval.

Following removal of concrete materials, verification samples will be collected from the remaining concrete at a location directly behind the former caulked joint. Verification samples will be collected at a frequency of one sample per 20 l.f. of caulked joint, for a total of 14 samples from the retaining walls



and six samples from the planting beds. Results of the verification samples will be evaluated as follows:

- Total PCBs ≤ 1 ppm – No additional concrete removal required; and
- Total PCBs > 1 ppm – Additional concrete removal to be conducted to the next “clean” sample point in either direction. Verification samples will be collected from off-set locations. The extent of additional removal and the frequency of verification samples will be evaluated based on the overall data set and subject to EPA approval.

Concrete Walls of Tobin Hall

The remediation of PCB impacted concrete not scheduled for removal on the walls of Tobin Hall is to be conducted in accordance with 40 CFR 761.61(c). Concrete materials assumed to contain PCBs at concentrations > 1 ppm will be managed in-place through the application of an encapsulating barrier. The total length of the west building wall subject to encapsulation measures approximately 80 l.f.

Based on the analytical data collected to date, concrete materials formerly in direct contact with the caulking and to a distance of one inch above and below the caulked joint are to be encapsulated using two coats of a liquid coating (the exact product has not been determined as of this writing). Prior to application, additional characterization samples will be collected from concrete one inch above and below the caulked joints at a frequency of one sample per 40 l.f. for a total of four samples (two above the joint and two below the joint). Results from this additional characterization sampling will be evaluated as follows:

- Total PCBs ≤ 1 ppm – Encapsulation to a distance of 1 inch from the caulked joint; and
- Total PCBs > 1 ppm – Additional characterization samples to be collected at a greater distance from the caulked joint. Analytical results from the additional samples to be used to establish the appropriate encapsulation distance. The required sample frequency of additional characterization samples and the extent of encapsulation will be evaluated based on the overall data set and subject to EPA approval.

Two coats of the selected liquid encapsulant will be applied following manufacturer’s specifications to the required distances. Following an appropriate cure time, verification wipe samples will be collected at a frequency of one sample per 40 l.f. of caulked joint for a total of two samples. Results of the verification samples will be evaluated as follows:

- Total PCBs ≤ 1 µg/100cm² – Encapsulation of PCBs complete, no additional action; and
- Total PCBs > 1 µg/100cm² – Additional coating of liquid encapsulant to be applied up to the next “clean” sample point in either direction. Following appropriate cure time, additional wipe samples to be collected at off-set locations.

Site Preparation and Waste Management

The following sections provide details on site preparation and control activities, storage and disposal requirements, and recordkeeping requirements.

Site Preparation and Control Activities

Prior to initiating the remediation activities, the following controls will be implemented:

- The contractor will develop a Health & Safety Plan specific to the work activities. All workers will follow applicable Federal and State regulations regarding the work activities, including but not limited to OSHA regulations, respiratory protection, and personal protective equipment (PPE), etc.



- Access to the active work areas will be controlled by the contractor through fencing, posting of signs, or other equivalent means.
- Engineering controls and/or containment measures will be implemented to control any dust or debris generated during removal activities.
- All work surfaces will be wetted to minimize dust during removal.
- Air monitoring within the support work zone and perimeter to this zone will be conducted during active removal of caulking, concrete, and soil excavation to monitor for respirable dust. Dust monitoring will not be conducted during saw cutting of the concrete as the cut line will be established outside the limits of PCB impacts. Dust levels and exposures to dust will be minimized by implementing a combination of engineering controls, wet work techniques, and personal protective equipment (e.g., respirators) as described above.

Waste Storage and Disposal

The following activities will be completed with regard to the proper storage and disposal of PCB waste:

- Secure, lined, covered, and marked waste containers (i.e., 55-gallon DOT-approved steel containers or roll-off container) will be staged for the collection of PCB wastes generated during the work activities in accordance with 40 CFR 761.65.
- All containers will be properly labeled and marked in accordance with 40 CFR 761.40.
- Additional waste disposal characterization sampling (for other parameters) will be conducted as part of the disposal facility acceptance, as needed.
- All caulking, concrete, and soils to be managed as ≥ 50 ppm PCB wastes will be disposed of in a hazardous waste landfill (e.g., the Chemical Waste Management facility located in Model City, New York), or equivalent.
- If any soils are found to contain PCBs > 1 and < 50 ppm after the first round of removal and verification sampling, then this material will either be disposed of as ≥ 50 ppm PCB wastes as outlined above or in a landfill permitted to accept PCB waste > 1 and < 50 ppm (e.g., the Waste Management facility located in Rochester, NH, or equivalent).
- Upon completion of the work or when a container is considered full, the waste will be transported off-site for disposal at the landfill specified above.
- All polyethylene sheeting, PPE, and other non-liquid materials generated during the work will be placed in the same container as the associated PCB waste for off-site disposal.
- Copies of all manifests, waste shipment records, and certificates of disposal will be collected and maintained as part of the final report.



Additional Considerations

As noted above, this letter has been prepared to outline the overall remedial approach as discussed during our phone conversation. As such, key components of a PCB remediation plan submittal including written owner certification, elements of the long term maintenance and monitoring plan for the in-place management of PCB impacted materials and recordkeeping and documentation information have not been included. These items will be included with all required information in a PCB Remediation Plan to be submitted under a separate cover.

Schedule

The removal of the caulking and PCB containing concrete decking is scheduled to commence on Thursday July 21, 2011. The overall project schedule will require the complete removal of the decking and associated remediation activities to be completed over the next three weeks.

If you have any questions or require further information, please feel free to contact me at (978) 557-8150 or at jhamel@woodardcurran.com.

Sincerely,

WOODARD & CURRAN INC.

A handwritten signature in black ink that reads "Jeffrey A. Hamel". The signature is fluid and cursive, with "Jeffrey" on top and "A. Hamel" below it.

Jeffrey A. Hamel, LSP, LEP
Senior Vice President

cc: Andrew Soles, University of Massachusetts
Tom Shaw, University of Massachusetts

Enclosures:

Table 1- Summary of Concrete Sample Results
Figure 1 – Site Location Map
Figure 2 – Tobin Hall Decking Layout and Characterization Sample Locations
Attachment 1 – Laboratory Analytical Data

Table 1
Summary of Concrete Sample Results

Tobin Hall Decking Remediation Project
UMass Amherst
Amherst, Massachusetts

Sample ID	Distance from Joint (inches)	Sample Date	Total PCBs (ppm)
Concrete Decking Characterization Samples			
TH-CBC-013	12	7/13/2011	0.41
TH-CBC-014	12	7/13/2011	<0.10
TH-CBC-015	12	7/13/2011	<0.10
TH-VBC-016	12	7/15/2011	< 0.10
TH-VBC-017	12	7/15/2011	0.25
TH-VBC-018	12	7/15/2011	< 0.091
TH-VBC-021	12	7/15/2011	<0.091
TH-VBC-022	12	7/15/2011	<0.095
TH-VBC-023	12	7/15/2011	< 0.087
TH-VBC-024	12	7/15/2011	0.14
TH-VBC-025	12	7/15/2011	< 0.091
TH-VBC-026	12	7/15/2011	< 0.095
TH-VBC-027	12	7/15/2011	< 0.087
TH-VBC-028	12	7/15/2011	< 0.087
TH-VBC-029	12	7/15/2011	< 0.10
TH-VBC-030	12	7/15/2011	< 0.10
TH-VBC-031	12	7/15/2011	< 0.095
TH-VBC-032	12	7/15/2011	0.14
TH-VBC-033	12	7/15/2011	< 0.087
TH-VBC-034	12	7/15/2011	< 0.10
TH-VBC-035	12	7/15/2011	< 0.091
TH-VBC-036	12	7/15/2011	< 0.095
TH-VBC-037	12	7/15/2011	< 0.10
TH-VBC-038	12	7/15/2011	< 0.091
TH-VBC-041	12	7/15/2011	< 0.095
TH-VBC-042	12	7/15/2011	< 0.095
TH-VBC-043	12	7/15/2011	< 0.095
TH-VBC-044	12	7/15/2011	< 0.091
TH-VBC-045	12	7/15/2011	< 0.091
TH-VBC-046	12	7/15/2011	< 0.087
TH-VBC-047	12	7/15/2011	< 0.095
TH-VBC-048	12	7/15/2011	< 0.091
TH-VBC-049	12	7/15/2011	< 0.091
TH-VBC-050	12	7/15/2011	0.85

Table 1
Summary of Concrete Sample Results

Tobin Hall Decking Remediation Project
UMass Amherst
Amherst, Massachusetts

Sample ID	Distance from Joint (inches)	Sample Date	Total PCBs (ppm)
TH-VBC-051	12	7/15/2011	< 0.087
TH-VBC-052	12	7/15/2011	< 0.10
TH-VBC-053	12	7/15/2011	< 0.10
TH-VBC-054	12	7/15/2011	0.51
TH-VBC-055	12	7/15/2011	< 0.10
TH-VBC-056	12	7/15/2011	< 0.10
TH-VBC-057	12	7/15/2011	< 0.10
TH-VBC-058	12	7/15/2011	< 0.095
TH-VBC-061	12	7/15/2011	< 0.095
TH-VBC-062	12	7/15/2011	0.229
TH-VBC-063	12	7/15/2011	< 0.091
TH-VBC-064	12	7/15/2011	0.63
TH-VBC-065	12	7/15/2011	< 0.10
TH-VBC-066	12	7/15/2011	< 0.095
Concrete Retaining Walls Characterization Samples			
TH-CBC-007	1	7/8/2011	< 0.10
TH-CBC-008	1	7/8/2011	< 0.091
TH-CBC-009	1	7/8/2011	< 0.095
Concrete Retaining Walls Verification Samples			
TH-VBC-010	3 - behind	7/8/2011	< 0.095
TH-VBC-011	3 - behind	7/8/2011	0.32
TH-VBC-012	3 - behind	7/8/2011	0.11

Notes:

Samples collected in accordance with USEPA Region 1 Standard Operation Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (revised May 2011) from a depth of 0 to 0.5 inches.

Total PCBs reported as Aroclor 1254 or Aroclor 1248. No other Aroclors reported above the minimum laboratory reporting limit.



University of Massachusetts Amherst Campus Map

April 2010

University Switchboard - (413) 545-0111

Tour Service - (413) 545-4237

Robsham Memorial Visitors Center - (413) 545-0306

To Rt. 63N
North Village Apts

C

D

Renaissance
Center

1

Map Key

0 500 1,000 Feet

31 Numbered Parking Lots

P Metered/Public Parking

▲ PVTA Bus Stops

✗ Traffic Lights

To Tillson Farm &
Intermediate Processing
Facility (IPF)

1

PROPOSED REMEDIATION AREA

TOBIN



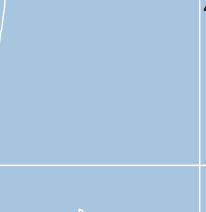
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3



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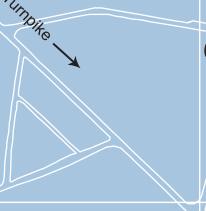
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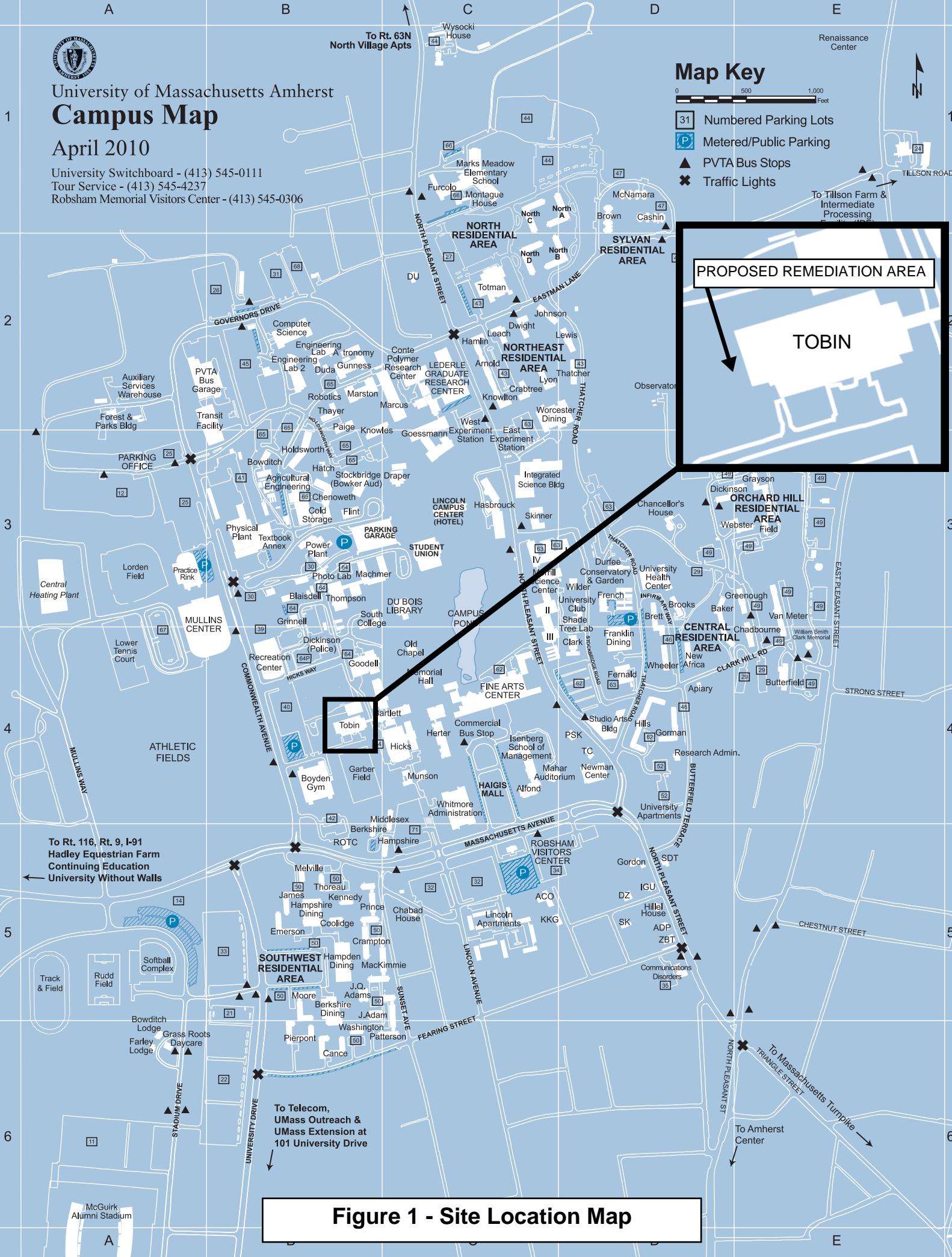


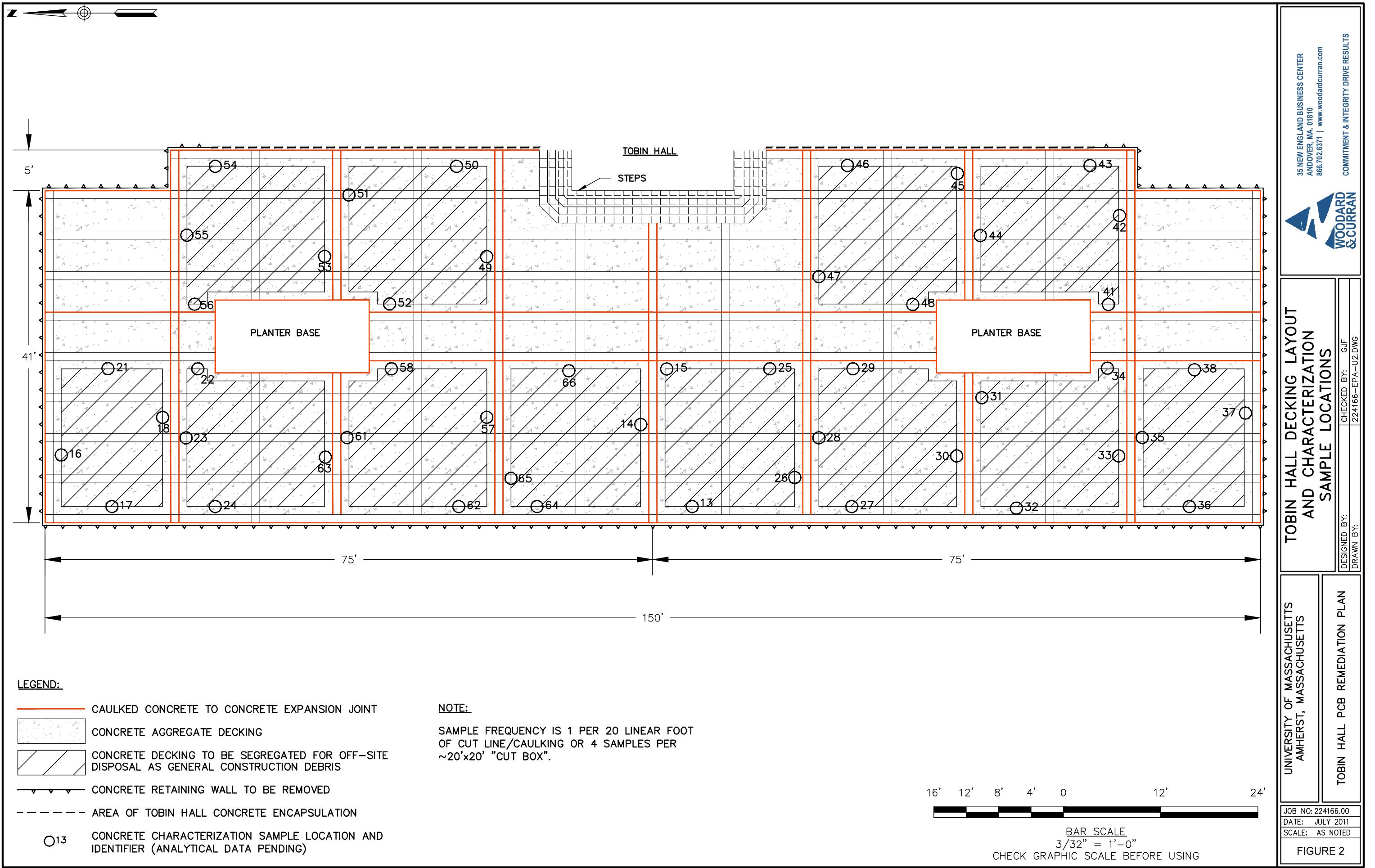
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6

Figure 1 - Site Location Map





ATTACHMENT 1 – LABORATORY ANALYTICAL REPORTS

June 27, 2011

George Franklin
Woodard & Curran - Andover, MA
35 New England Business Center
Andover, MA 01810

Project Location: Commonwealth College (Amherst, MA)

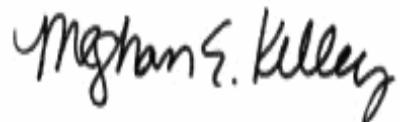
Client Job Number:

Project Number: 224166

Laboratory Work Order Number: 11F0738

Enclosed are results of analyses for samples received by the laboratory on June 21, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

REPORT DATE: 6/27/2011

Woodard & Curran - Andover, MA
35 New England Business Center
Andover, MA 01810
ATTN: George Franklin

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 224166

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11F0738

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Commonwealth College (Amherst, MA)

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CHC-CK-001	11F0738-01	Concrete		SW-846 8082A	
CHC-CK-002	11F0738-02	Concrete		SW-846 8082A	
CHC-CK-003	11F0738-03	Concrete		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

11F0738-01[CHC-CK-001], 11F0738-02[CHC-CK-002], 11F0738-03[CHC-CK-003]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

Project Location: Commonwealth College (Amherst)

Sample Description:

Work Order: 11F0738

Date Received: 6/21/2011

Field Sample #: CHC-CK-001

Sampled: 6/21/2011 14:00

Sample ID: 11F0738-01

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	34	mg/Kg	200		SW-846 8082A	6/21/11	6/25/11 0:52	JMB
Aroclor-1221 [1]	ND	34	mg/Kg	200		SW-846 8082A	6/21/11	6/25/11 0:52	JMB
Aroclor-1232 [1]	ND	34	mg/Kg	200		SW-846 8082A	6/21/11	6/25/11 0:52	JMB
Aroclor-1242 [1]	ND	34	mg/Kg	200		SW-846 8082A	6/21/11	6/25/11 0:52	JMB
Aroclor-1248 [1]	ND	34	mg/Kg	200		SW-846 8082A	6/21/11	6/25/11 0:52	JMB
Aroclor-1254 [2]	640	34	mg/Kg	200		SW-846 8082A	6/21/11	6/25/11 0:52	JMB
Aroclor-1260 [1]	ND	34	mg/Kg	200		SW-846 8082A	6/21/11	6/25/11 0:52	JMB
Aroclor-1262 [1]	ND	34	mg/Kg	200		SW-846 8082A	6/21/11	6/25/11 0:52	JMB
Aroclor-1268 [1]	ND	34	mg/Kg	200		SW-846 8082A	6/21/11	6/25/11 0:52	JMB
Surrogates		% Recovery		Recovery Limits		Flag			
Decachlorobiphenyl [1]		*		30-150		S-01			6/25/11 0:52
Decachlorobiphenyl [2]		*		30-150		S-01			6/25/11 0:52
Tetrachloro-m-xylene [1]		*		30-150		S-01			6/25/11 0:52
Tetrachloro-m-xylene [2]		*		30-150		S-01			6/25/11 0:52

Project Location: Commonwealth College (Amherst)

Sample Description:

Work Order: 11F0738

Date Received: 6/21/2011

Field Sample #: CHC-CK-002

Sampled: 6/21/2011 14:10

Sample ID: 11F0738-02

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	20	mg/Kg	100		SW-846 8082A	6/21/11	6/25/11 1:06	JMB
Aroclor-1221 [1]	ND	20	mg/Kg	100		SW-846 8082A	6/21/11	6/25/11 1:06	JMB
Aroclor-1232 [1]	ND	20	mg/Kg	100		SW-846 8082A	6/21/11	6/25/11 1:06	JMB
Aroclor-1242 [1]	ND	20	mg/Kg	100		SW-846 8082A	6/21/11	6/25/11 1:06	JMB
Aroclor-1248 [1]	ND	20	mg/Kg	100		SW-846 8082A	6/21/11	6/25/11 1:06	JMB
Aroclor-1254 [1]	210	20	mg/Kg	100		SW-846 8082A	6/21/11	6/25/11 1:06	JMB
Aroclor-1260 [1]	ND	20	mg/Kg	100		SW-846 8082A	6/21/11	6/25/11 1:06	JMB
Aroclor-1262 [1]	ND	20	mg/Kg	100		SW-846 8082A	6/21/11	6/25/11 1:06	JMB
Aroclor-1268 [1]	ND	20	mg/Kg	100		SW-846 8082A	6/21/11	6/25/11 1:06	JMB
Surrogates		% Recovery		Recovery Limits		Flag			
Decachlorobiphenyl [1]		*		30-150		S-01			6/25/11 1:06
Decachlorobiphenyl [2]		*		30-150		S-01			6/25/11 1:06
Tetrachloro-m-xylene [1]		*		30-150		S-01			6/25/11 1:06
Tetrachloro-m-xylene [2]		*		30-150		S-01			6/25/11 1:06

Project Location: Commonwealth College (Amherst)

Sample Description:

Work Order: 11F0738

Date Received: 6/21/2011

Field Sample #: CHC-CK-003

Sampled: 6/21/2011 14:15

Sample ID: 11F0738-03

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	79	mg/Kg	400		SW-846 8082A	6/21/11	6/25/11 1:21	JMB
Aroclor-1221 [1]	ND	79	mg/Kg	400		SW-846 8082A	6/21/11	6/25/11 1:21	JMB
Aroclor-1232 [1]	ND	79	mg/Kg	400		SW-846 8082A	6/21/11	6/25/11 1:21	JMB
Aroclor-1242 [1]	ND	79	mg/Kg	400		SW-846 8082A	6/21/11	6/25/11 1:21	JMB
Aroclor-1248 [1]	ND	79	mg/Kg	400		SW-846 8082A	6/21/11	6/25/11 1:21	JMB
Aroclor-1254 [1]	760	79	mg/Kg	400		SW-846 8082A	6/21/11	6/25/11 1:21	JMB
Aroclor-1260 [1]	ND	79	mg/Kg	400		SW-846 8082A	6/21/11	6/25/11 1:21	JMB
Aroclor-1262 [1]	ND	79	mg/Kg	400		SW-846 8082A	6/21/11	6/25/11 1:21	JMB
Aroclor-1268 [1]	ND	79	mg/Kg	400		SW-846 8082A	6/21/11	6/25/11 1:21	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		*	30-150		S-01			6/25/11 1:21	
Decachlorobiphenyl [2]		*	30-150		S-01			6/25/11 1:21	
Tetrachloro-m-xylene [1]		*	30-150		S-01			6/25/11 1:21	
Tetrachloro-m-xylene [2]		*	30-150		S-01			6/25/11 1:21	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11F0738-01 [CHC-CK-001]	B032451	0.593	10.0	06/21/11
11F0738-02 [CHC-CK-002]	B032451	0.501	10.0	06/21/11
11F0738-03 [CHC-CK-003]	B032451	0.506	10.0	06/21/11

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch B032451 - SW-846 3540C

Blank (B032451-BLK1)										Prepared: 06/21/11 Analyzed: 06/24/11
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	3.14		mg/Kg	4.00		78.5		30-150		
Surrogate: Decachlorobiphenyl [2C]	4.29		mg/Kg	4.00		107		30-150		
Surrogate: Tetrachloro-m-xylene	3.66		mg/Kg	4.00		91.5		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	3.61		mg/Kg	4.00		90.3		30-150		

LCS (B032451-BS1)										Prepared: 06/21/11 Analyzed: 06/24/11
Aroclor-1016	4.6	0.20	mg/Kg	4.00		114		40-140		
Aroclor-1016 [2C]	4.3	0.20	mg/Kg	4.00		107		40-140		
Aroclor-1260	4.5	0.20	mg/Kg	4.00		113		40-140		
Aroclor-1260 [2C]	4.3	0.20	mg/Kg	4.00		108		40-140		
Surrogate: Decachlorobiphenyl	4.22		mg/Kg	4.00		106		30-150		
Surrogate: Decachlorobiphenyl [2C]	5.85		mg/Kg	4.00		146		30-150		
Surrogate: Tetrachloro-m-xylene	5.08		mg/Kg	4.00		127		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	5.05		mg/Kg	4.00		126		30-150		

LCS Dup (B032451-BSD1)										Prepared: 06/21/11 Analyzed: 06/24/11
Aroclor-1016	3.5	0.20	mg/Kg	4.00		87.4		40-140	26.6	30
Aroclor-1016 [2C]	3.8	0.20	mg/Kg	4.00		94.3		40-140	13.0	30
Aroclor-1260	4.1	0.20	mg/Kg	4.00		103		40-140	9.05	30
Aroclor-1260 [2C]	3.6	0.20	mg/Kg	4.00		90.5		40-140	17.7	30
Surrogate: Decachlorobiphenyl	3.15		mg/Kg	4.00		78.8		30-150		
Surrogate: Decachlorobiphenyl [2C]	4.34		mg/Kg	4.00		109		30-150		
Surrogate: Tetrachloro-m-xylene	3.73		mg/Kg	4.00		93.3		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	3.66		mg/Kg	4.00		91.6		30-150		

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

S-01 The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
No certified Analyses included in this Report	

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlist.com

CHAIN OF CUSTODY RECORD

**39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028**

Page
1

Company Name: WOODARD & LIEBMAN

Address: 35 N.E. BUSINESS CTR., SUITE 180

Project Location: COMMONWEALTH CONCRETE (AMHERST, MA)
Sampled By: T. DeRosa

■ Proposal Provided? (For Billing purposes)

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENTS.

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Woodland + Curran

RECEIVED BY: CB

DATE: 6/21/11

1) Was the chain(s) of custody relinquished and signed?

Yes No No CoC Included

2) Does the chain agree with the samples?

Yes No

If not, explain:

3) Are all the samples in good condition?

Yes No

If not, explain:

4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)?

Yes No N/A

Temperature °C by Temp blank

5 - 0

Temperature °C by Temp gun

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	<u>3</u>	2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

Sample appears to be caulk/ing. listed as concrete on chain.

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Doc# 277

Do all samples have the proper Base pH: Yes No N/A

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11F0738-01

CHC-CK-001

Analyte	Results	%RPD
Aroclor-1254 [2C]	640	617.1366

11F0738-02

CHC-CK-002

Analyte	Results	%RPD
Aroclor-1254	210	184.7864

11F0738-03

CHC-CK-003

Analyte	Results	%RPD
Aroclor-1254	760	688.4902

B032451-BLK1

Blank

Analyte	Results	%RPD
<u>Surrogates</u>		
Tetrachloro-m-xylene	3.66	3.6104
Decachlorobiphenyl	3.14	4.2902

B032451-BS1

LCS

Analyte	Results	%RPD
Aroclor-1260	4.5	4.32074
Aroclor-1016	4.6	4.29744
<u>Surrogates</u>		
Tetrachloro-m-xylene	5.08	5.05362
Decachlorobiphenyl	4.22	5.85382

B032451-BSD1

LCS Dup

Analyte	Results	%RPD
Aroclor-1260	4.1	3.61818
Aroclor-1016	3.5	3.77172
<u>Surrogates</u>		
Tetrachloro-m-xylene	3.73	3.66412
Decachlorobiphenyl	3.15	4.34128

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	11F0738
Project Location:	Commonwealth College (Amherst, MA)	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11F0738-01 thru 11F0738-03

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ()	7470/7471 Hg CAM IIIB ()	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B ()	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A ()	6020 Metals CAM III D ()	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.		
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____

Position: Laboratory Director

Printed Name: Michael A. Erickson

Date: 06/27/11

July 12, 2011

George Franklin
Woodard & Curran - Andover, MA
35 New England Business Center
Andover, MA 01810

Project Location: UMass- Tobin Hall Amherst, MA

Client Job Number:

Project Number: 224733

Laboratory Work Order Number: 11G0186

Enclosed are results of analyses for samples received by the laboratory on July 8, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

REPORT DATE: 7/12/2011

Woodard & Curran - Andover, MA
35 New England Business Center
Andover, MA 01810
ATTN: George Franklin

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 224733

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11G0186

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Umass- Tobin Hall Amherst, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TH-CBC-007	11G0186-04	Concrete		SW-846 8082A	
TH-CBC-008	11G0186-05	Concrete		SW-846 8082A	
TH-CBC-009	11G0186-06	Concrete		SW-846 8082A	
TH-VBC-010	11G0186-07	Concrete		SW-846 8082A	
TH-VBC-011	11G0186-08	Concrete		SW-846 8082A	
TH-VBC-012	11G0186-09	Concrete		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

Project Location: Umass- Tobin Hall Amherst, MA

Sample Description:

Work Order: 11G0186

Date Received: 7/8/2011

Field Sample #: TH-CBC-007

Sampled: 7/8/2011 13:00

Sample ID: 11G0186-04

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:38	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:38	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:38	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:38	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:38	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:38	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:38	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:38	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:38	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	97.7		30-150					7/11/11 14:38	
Decachlorobiphenyl [2]	89.9		30-150					7/11/11 14:38	
Tetrachloro-m-xylene [1]	95.3		30-150					7/11/11 14:38	
Tetrachloro-m-xylene [2]	100		30-150					7/11/11 14:38	

Project Location: Umass- Tobin Hall Amherst, MA

Sample Description:

Work Order: 11G0186

Date Received: 7/8/2011

Field Sample #: TH-CBC-008

Sampled: 7/8/2011 13:10

Sample ID: 11G0186-05

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:50	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:50	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:50	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:50	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:50	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:50	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:50	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:50	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 14:50	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	101		30-150					7/11/11 14:50	
Decachlorobiphenyl [2]	93.8		30-150					7/11/11 14:50	
Tetrachloro-m-xylene [1]	102		30-150					7/11/11 14:50	
Tetrachloro-m-xylene [2]	107		30-150					7/11/11 14:50	

Project Location: Umass- Tobin Hall Amherst, MA

Sample Description:

Work Order: 11G0186

Date Received: 7/8/2011

Field Sample #: TH-CBC-009

Sampled: 7/8/2011 13:15

Sample ID: 11G0186-06

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:03	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:03	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:03	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:03	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:03	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:03	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:03	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:03	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:03	JMB
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	103	30-150							7/11/11 15:03
Decachlorobiphenyl [2]	94.9	30-150							7/11/11 15:03
Tetrachloro-m-xylene [1]	99.9	30-150							7/11/11 15:03
Tetrachloro-m-xylene [2]	104	30-150							7/11/11 15:03

Project Location: Umass- Tobin Hall Amherst, MA

Sample Description:

Work Order: 11G0186

Date Received: 7/8/2011

Field Sample #: TH-VBC-010

Sampled: 7/8/2011 14:50

Sample ID: 11G0186-07

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:15	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:15	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:15	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:15	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:15	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:15	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:15	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:15	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:15	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	94.8		30-150					7/11/11 15:15	
Decachlorobiphenyl [2]	87.2		30-150					7/11/11 15:15	
Tetrachloro-m-xylene [1]	91.6		30-150					7/11/11 15:15	
Tetrachloro-m-xylene [2]	96.6		30-150					7/11/11 15:15	

Project Location: Umass- Tobin Hall Amherst, MA

Sample Description:

Work Order: 11G0186

Date Received: 7/8/2011

Field Sample #: TH-VBC-011

Sampled: 7/8/2011 14:40

Sample ID: 11G0186-08

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:27	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:27	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:27	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:27	JMB
Aroclor-1248 [2]	0.32	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:27	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:27	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:27	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:27	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:27	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		101	30-150					7/11/11 15:27	
Decachlorobiphenyl [2]		92.6	30-150					7/11/11 15:27	
Tetrachloro-m-xylene [1]		96.0	30-150					7/11/11 15:27	
Tetrachloro-m-xylene [2]		101	30-150					7/11/11 15:27	

Project Location: Umass- Tobin Hall Amherst, MA

Sample Description:

Work Order: 11G0186

Date Received: 7/8/2011

Field Sample #: TH-VBC-012

Sampled: 7/8/2011 14:30

Sample ID: 11G0186-09

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:39	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:39	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:39	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:39	JMB
Aroclor-1248 [1]	0.11	0.087	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:39	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:39	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:39	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:39	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/8/11	7/11/11 15:39	JMB
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	93.4		30-150					7/11/11 15:39	
Decachlorobiphenyl [2]	87.1		30-150					7/11/11 15:39	
Tetrachloro-m-xylene [1]	95.5		30-150					7/11/11 15:39	
Tetrachloro-m-xylene [2]	100		30-150					7/11/11 15:39	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11G0186-04 [TH-CBC-007]	B033374	2.00	10.0	07/08/11
11G0186-05 [TH-CBC-008]	B033374	2.20	10.0	07/08/11
11G0186-06 [TH-CBC-009]	B033374	2.10	10.0	07/08/11
11G0186-07 [TH-VBC-010]	B033374	2.10	10.0	07/08/11
11G0186-08 [TH-VBC-011]	B033374	2.20	10.0	07/08/11
11G0186-09 [TH-VBC-012]	B033374	2.30	10.0	07/08/11

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch B033374 - SW-846 3540C

Blank (B033374-BLK1)					Prepared: 07/08/11 Analyzed: 07/11/11					
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	1.03	mg/Kg	1.00		103	30-150				
Surrogate: Decachlorobiphenyl [2C]	0.995	mg/Kg	1.00		99.5	30-150				
Surrogate: Tetrachloro-m-xylene	1.09	mg/Kg	1.00		109	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	1.05	mg/Kg	1.00		105	30-150				

LCS (B033374-BS1)					Prepared: 07/08/11 Analyzed: 07/11/11					
Aroclor-1016	0.24	0.10	mg/Kg	0.250	96.1	40-140				
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250	116	40-140				
Aroclor-1260	0.26	0.10	mg/Kg	0.250	102	40-140				
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250	102	40-140				
Surrogate: Decachlorobiphenyl	1.00	mg/Kg	1.00		100	30-150				
Surrogate: Decachlorobiphenyl [2C]	0.971	mg/Kg	1.00		97.1	30-150				
Surrogate: Tetrachloro-m-xylene	1.04	mg/Kg	1.00		104	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	1.01	mg/Kg	1.00		101	30-150				

LCS Dup (B033374-BSD1)					Prepared: 07/08/11 Analyzed: 07/11/11					
Aroclor-1016	0.24	0.10	mg/Kg	0.250	96.3	40-140	0.187	30		
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250	116	40-140	0.0881	30		
Aroclor-1260	0.26	0.10	mg/Kg	0.250	102	40-140	0.0391	30		
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250	109	40-140	6.60	30		
Surrogate: Decachlorobiphenyl	0.987	mg/Kg	1.00		98.7	30-150				
Surrogate: Decachlorobiphenyl [2C]	0.954	mg/Kg	1.00		95.4	30-150				
Surrogate: Tetrachloro-m-xylene	1.04	mg/Kg	1.00		104	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	1.01	mg/Kg	1.00		101	30-150				

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch B033374 - SW-846 3540C

Matrix Spike (B033374-MS1)		Source: 11G0186-04		Prepared: 07/08/11 Analyzed: 07/11/11					
Aroclor-1016	0.26	0.10	mg/Kg	0.250	0.0	104	40-140		
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250	0.0	113	40-140		
Aroclor-1260	0.26	0.10	mg/Kg	0.250	0.0	105	40-140		
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250	0.0	117	40-140		
Surrogate: Decachlorobiphenyl	1.02		mg/Kg	1.00		102	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.983		mg/Kg	1.00		98.3	30-150		
Surrogate: Tetrachloro-m-xylene	1.01		mg/Kg	1.00		101	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.986		mg/Kg	1.00		98.6	30-150		
Matrix Spike Dup (B033374-MSD1)		Source: 11G0186-04		Prepared: 07/08/11 Analyzed: 07/11/11					
Aroclor-1016	0.22	0.087	mg/Kg	0.217	0.0	100	40-140	17.2	50
Aroclor-1016 [2C]	0.26	0.087	mg/Kg	0.217	0.0	117	40-140	9.86	50
Aroclor-1260	0.22	0.087	mg/Kg	0.217	0.0	102	40-140	17.2	50
Aroclor-1260 [2C]	0.25	0.087	mg/Kg	0.217	0.0	114	40-140	16.4	50
Surrogate: Decachlorobiphenyl	0.847		mg/Kg	0.870		97.4	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.816		mg/Kg	0.870		93.8	30-150		
Surrogate: Tetrachloro-m-xylene	0.887		mg/Kg	0.870		102	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.858		mg/Kg	0.870		98.6	30-150		

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



Phone: 413-525-2332

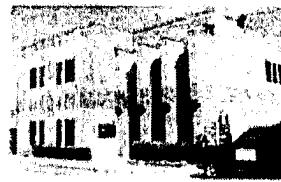
CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____
1

Company Name: WOODWARD & CURRAN		Telephone: (1978)557-8150	ANALYSIS REQUESTED	
Address: 35 N.E. BUSINESS CTR, SUITE 180 ANDOVER, MA		Project # 224733		
Attention: GEORGE FRANKLIN		Client PO#		
Project Location: UMASS - TUBIN HALL ANDOVER, MA		DATA DELIVERY (check all that apply)		
Sampled By: J. REAM		<input type="checkbox"/> FAX <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> WEBSITE		
Project Proposal Provided? (for billing purposes) <input type="radio"/> yes <input type="radio"/> no proposal date		Email: jream@woodwardcurran.com		
Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection	*Matrix	PCB's (South Left)
-01	TH-CBC-004	Beginning Date/Time: 7/8/11	Composite Grab Sample	PCB's (South Left) HDL
-02	TH-CBC-005	Ending Date/Time: 1225	✓ D	X
-03	TH-CBC-006		✓ D	X
-04	TH-CBC-007		✓ D	X
-05	TH-CBC-008		✓ D	X
-06	TH-CBC-009		✓ D	X
-07	TH-VBC-010		✓ D	X
-08	TH-VBC-011		✓ D	X
-09	TH-VBC-012		✓ D	X
Comments: PCB's by USEPA by 8082 by July 30 th .		Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box: H - High; M - Medium; L - Low; C - Clean; U - Unknown		
Relinquished by: (signature) <i>J. REAM</i>	Date/Time: 7/8/11 1600	Turnaround ^{††}	Detection Limit Requirements	
Received by: (signature) <i>J. REAM</i>	Date/Time: 7/8/11 1600	<input type="checkbox"/> 7-Day <input type="checkbox"/> 10-Day <input checked="" type="checkbox"/> Other _____ RUSH [†]	Is your project MCP or RCP? <input type="radio"/> MCP Analytical Certification Form Required <input type="radio"/> RCP Analysis Certification Form Required <input type="radio"/> MA State DW Form Required PWSID # _____	
Relinquished by: (signature)	Date/Time:	*Matrix Code: GW = Groundwater WW = Drinking Water A = Air SL = Soil/Solid DW = Sludge WW = Wastewater		
Received by: (signature)	Date/Time:	Other: _____  		
*Required lab approval NELAC & AIHA Certified WBEDBE Certified				

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Woodbury + Curran RECEIVED BY: JL DATE: 7/18/11

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

Yes No

4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 5.0 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter?

Who was notified _____ Date _____ Time _____

Yes No

6) Are there any RUSH or SHORT HOLDING TIME samples?

Who was notified C.C. Date 7/18/11 Time 1600

Yes No

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<u>9</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Do all samples have the proper Base pH: Yes No N/A

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11G0186-04

TH-CBC-007

Analyte	Results	%RPD
<u>Surrogates</u>		
Tetrachloro-m-xylene	0.953	1.00444
Decachlorobiphenyl	0.977	0.89878

11G0186-05

TH-CBC-008

Analyte	Results	%RPD
<u>Surrogates</u>		
Decachlorobiphenyl	0.919	0.8524545
Tetrachloro-m-xylene	0.927	0.9710818

11G0186-06

TH-CBC-009

Analyte	Results	%RPD
<u>Surrogates</u>		
Decachlorobiphenyl	0.979	0.9033714
Tetrachloro-m-xylene	0.952	0.9947667

11G0186-07

TH-VBC-010

Analyte	Results	%RPD
<u>Surrogates</u>		
Tetrachloro-m-xylene	0.872	0.9204382
Decachlorobiphenyl	0.903	0.8306619

11G0186-08

TH-VBC-011

Analyte	Results	%RPD
Aroclor-1248 [2C]	0.32	0.3115455
<u>Surrogates</u>		
Tetrachloro-m-xylene	0.872	0.9171182
Decachlorobiphenyl	0.918	0.8413909

11G0186-09

TH-VBC-012

Analyte	Results	%RPD
Aroclor-1248	0.11	0.106887
<u>Surrogates</u>		
Decachlorobiphenyl	0.812	0.7576392
Tetrachloro-m-xylene	0.830	0.8731043

B033374-BLK1

Blank

Analyte	Results	%RPD
<u>Surrogates</u>		
Decachlorobiphenyl	1.03	0.99516
Tetrachloro-m-xylene	1.09	1.04995

B033374-BS1

LCS

Analyte	Results	%RPD
Aroclor-1260	0.26	0.256105
Aroclor-1016	0.24	0.289675
<u>Surrogates</u>		
Decachlorobiphenyl	1.00	0.971245
Tetrachloro-m-xylene	1.04	1.010135

B033374-BSD1

LCS Dup

Analyte	Results	%RPD
Aroclor-1016	0.24	0.28942
Aroclor-1260	0.26	0.27359
<u>Surrogates</u>		
Tetrachloro-m-xylene	1.04	1.01138
Decachlorobiphenyl	0.987	0.954375

B033374-MS1**Matrix Spike**

Analyte	Results		%RPD
Aroclor-1016	0.26	0.28171	8.02
Aroclor-1260	0.26	0.29252	11.8
Surrogates			
Tetrachloro-m-xylene	1.01	0.985605	2.44
Decachlorobiphenyl	1.02	0.982805	3.71

B033374-MSD1**Matrix Spike Dup**

Analyte	Results		%RPD
Aroclor-1016	0.22	0.2552478	14.8
Aroclor-1260	0.22	0.2482131	12.1
Surrogates			
Tetrachloro-m-xylene	0.887	0.8575174	3.38
Decachlorobiphenyl	0.847	0.8160565	3.72

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	11G0186
Project Location:	Umass- Tobin Hall Amherst, MA	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11G0186-04 thru 11G0186-09

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ()	7470/7471 Hg CAM IIIB ()	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B ()	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A ()	6020 Metals CAM III D ()	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
----------	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____

Position: Laboratory Manager

Printed Name: _____

Daren J. Damboragian

Date: _____

07/12/11

July 15, 2011

George Franklin
Woodard & Curran - Andover, MA
35 New England Business Center
Andover, MA 01810

Project Location: Amherst, MA UMASS Tobin Hall

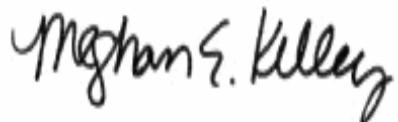
Client Job Number:

Project Number: 224733

Laboratory Work Order Number: 11G0300

Enclosed are results of analyses for samples received by the laboratory on July 13, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

REPORT DATE: 7/15/2011

Woodard & Curran - Andover, MA
35 New England Business Center
Andover, MA 01810
ATTN: George Franklin

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 224733

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11G0300

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Amherst, MA UMASS Tobin Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TH-CBC-013	11G0300-01	Concrete		SW-846 8082A	
TH-CBC-014	11G0300-02	Concrete		SW-846 8082A	
TH-CBC-015	11G0300-03	Concrete		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

Project Location: Amherst, MA UMASS Tobin Hall

Sample Description:

Work Order: 11G0300

Date Received: 7/13/2011

Field Sample #: TH-CBC-013

Sampled: 7/13/2011 12:15

Sample ID: 11G0300-01

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:29	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:29	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:29	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:29	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:29	JMB
Aroclor-1254 [2]	0.41	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:29	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:29	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:29	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:29	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		94.7	30-150					7/15/11 3:29	
Decachlorobiphenyl [2]		89.4	30-150					7/15/11 3:29	
Tetrachloro-m-xylene [1]		89.4	30-150					7/15/11 3:29	
Tetrachloro-m-xylene [2]		87.9	30-150					7/15/11 3:29	

Project Location: Amherst, MA UMASS Tobin Hall

Sample Description:

Work Order: 11G0300

Date Received: 7/13/2011

Field Sample #: TH-CBC-014

Sampled: 7/13/2011 12:30

Sample ID: 11G0300-02

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:42	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:42	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:42	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:42	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:42	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:42	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:42	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:42	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:42	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		112	30-150					7/15/11 3:42	
Decachlorobiphenyl [2]		106	30-150					7/15/11 3:42	
Tetrachloro-m-xylene [1]		109	30-150					7/15/11 3:42	
Tetrachloro-m-xylene [2]		109	30-150					7/15/11 3:42	

Project Location: Amherst, MA UMASS Tobin Hall

Sample Description:

Work Order: 11G0300

Date Received: 7/13/2011

Field Sample #: TH-CBC-015

Sampled: 7/13/2011 12:40

Sample ID: 11G0300-03

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:54	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:54	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:54	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:54	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:54	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:54	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:54	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:54	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/13/11	7/15/11 3:54	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		91.8	30-150					7/15/11 3:54	
Decachlorobiphenyl [2]		88.7	30-150					7/15/11 3:54	
Tetrachloro-m-xylene [1]		85.6	30-150					7/15/11 3:54	
Tetrachloro-m-xylene [2]		86.1	30-150					7/15/11 3:54	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11G0300-01 [TH-CBC-013]	B033557	2.00	10.0	07/13/11
11G0300-02 [TH-CBC-014]	B033557	2.00	10.0	07/13/11
11G0300-03 [TH-CBC-015]	B033557	2.00	10.0	07/13/11

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch B033557 - SW-846 3540C

Blank (B033557-BLK1)					Prepared: 07/13/11 Analyzed: 07/15/11				
Aroclor-1016	ND	0.10	mg/Kg						
Aroclor-1016 [2C]	ND	0.10	mg/Kg						
Aroclor-1221	ND	0.10	mg/Kg						
Aroclor-1221 [2C]	ND	0.10	mg/Kg						
Aroclor-1232	ND	0.10	mg/Kg						
Aroclor-1232 [2C]	ND	0.10	mg/Kg						
Aroclor-1242	ND	0.10	mg/Kg						
Aroclor-1242 [2C]	ND	0.10	mg/Kg						
Aroclor-1248	ND	0.10	mg/Kg						
Aroclor-1248 [2C]	ND	0.10	mg/Kg						
Aroclor-1254	ND	0.10	mg/Kg						
Aroclor-1254 [2C]	ND	0.10	mg/Kg						
Aroclor-1260	ND	0.10	mg/Kg						
Aroclor-1260 [2C]	ND	0.10	mg/Kg						
Aroclor-1262	ND	0.10	mg/Kg						
Aroclor-1262 [2C]	ND	0.10	mg/Kg						
Aroclor-1268	ND	0.10	mg/Kg						
Aroclor-1268 [2C]	ND	0.10	mg/Kg						
Surrogate: Decachlorobiphenyl	0.932		mg/Kg	1.00		93.2		30-150	
Surrogate: Decachlorobiphenyl [2C]	0.903		mg/Kg	1.00		90.3		30-150	
Surrogate: Tetrachloro-m-xylene	0.974		mg/Kg	1.00		97.4		30-150	
Surrogate: Tetrachloro-m-xylene [2C]	0.965		mg/Kg	1.00		96.5		30-150	

LCS (B033557-BS1)					Prepared: 07/13/11 Analyzed: 07/15/11				
Aroclor-1016	0.25	0.10	mg/Kg	0.250		98.8		40-140	
Aroclor-1016 [2C]	0.31	0.10	mg/Kg	0.250		122		40-140	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		97.4		40-140	
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		109		40-140	
Surrogate: Decachlorobiphenyl	0.969		mg/Kg	1.00		96.9		30-150	
Surrogate: Decachlorobiphenyl [2C]	0.936		mg/Kg	1.00		93.6		30-150	
Surrogate: Tetrachloro-m-xylene	0.974		mg/Kg	1.00		97.4		30-150	
Surrogate: Tetrachloro-m-xylene [2C]	0.967		mg/Kg	1.00		96.7		30-150	

LCS Dup (B033557-BSD1)					Prepared: 07/13/11 Analyzed: 07/15/11				
Aroclor-1016	0.29	0.10	mg/Kg	0.250		117		40-140	16.7
Aroclor-1016 [2C]	0.33	0.10	mg/Kg	0.250		133		40-140	8.28
Aroclor-1260	0.26	0.10	mg/Kg	0.250		103		40-140	5.60
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		113		40-140	3.86
Surrogate: Decachlorobiphenyl	0.976		mg/Kg	1.00		97.6		30-150	
Surrogate: Decachlorobiphenyl [2C]	0.947		mg/Kg	1.00		94.7		30-150	
Surrogate: Tetrachloro-m-xylene	1.02		mg/Kg	1.00		102		30-150	
Surrogate: Tetrachloro-m-xylene [2C]	1.01		mg/Kg	1.00		101		30-150	

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



con-test
ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01022

Page 1 of 1

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME:	Woodard & Curran	RECEIVED BY:	PB/CB	DATE:	7/12/11
1) Was the chain(s) of custody relinquished and signed?			<input checked="" type="radio"/> Yes	No	No CoC Included
2) Does the chain agree with the samples?			<input checked="" type="radio"/> Yes	No	
If not, explain:					
3) Are all the samples in good condition?			<input checked="" type="radio"/> Yes	No	
If not, explain:					
4) How were the samples received:					
On Ice	<input checked="" type="checkbox"/>	Direct from Sampling	<input type="checkbox"/>	Ambient	<input type="checkbox"/>
Were the samples received in Temperature Compliance of (2-6°C)?			<input checked="" type="radio"/> Yes	No	N/A
Temperature °C by Temp blank			Temperature °C by Temp gun 4.6 °C		
5) Are there Dissolved samples for the lab to filter?			<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Who was notified _____ Date _____ Time _____					
6) Are there any RUSH or SHORT HOLDING TIME samples?			<input checked="" type="radio"/> Yes	No	
Who was notified _____ Date _____ Time _____					
7) Location where samples are stored: 19			Permission to subcontract samples? Yes No (Walk-in clients only) if not already approved Client Signature:		

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	<input checked="" type="radio"/> 3
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____	# Methanol _____	Time and Date Frozen:
# Bisulfate _____	# DI Water _____	
# Thiosulfate _____	Unpreserved _____	

Do all samples have the proper Acid pH: Yes No N/A

Doc# 277

Do all samples have the proper Base pH: Yes No N/A

Rev. 1 May

11G0300-01

TH-CBC-013

Analyte	Results	%RPD
Aroclor-1254 [2C]	0.41	0.384435
<u>Surrogates</u>		
Decachlorobiphenyl	0.947	0.89385
Tetrachloro-m-xylene	0.894	0.879075

11G0300-02

TH-CBC-014

Analyte	Results	%RPD
<u>Surrogates</u>		
Decachlorobiphenyl	1.12	1.06481
Tetrachloro-m-xylene	1.09	1.09044

11G0300-03

TH-CBC-015

Analyte	Results	%RPD
<u>Surrogates</u>		
Decachlorobiphenyl	0.918	0.88743
Tetrachloro-m-xylene	0.856	0.8607

B033557-BLK1

Blank

Analyte	Results	%RPD
<u>Surrogates</u>		
Tetrachloro-m-xylene	0.974	0.965345
Decachlorobiphenyl	0.932	0.90292

B033557-BS1

LCS

Analyte	Results	%RPD
Aroclor-1260	0.24	0.271265
Aroclor-1016	0.25	0.306015
<u>Surrogates</u>		
Decachlorobiphenyl	0.969	0.935985
Tetrachloro-m-xylene	0.974	0.966905

B033557-BSD1

LCS Dup

Analyte	Results	%RPD
Aroclor-1016	0.29	0.33246
Aroclor-1260	0.26	0.28194
<u>Surrogates</u>		
Tetrachloro-m-xylene	1.02	1.01068
Decachlorobiphenyl	0.976	0.94658

July 19, 2011

George Franklin
Woodard & Curran - Andover, MA
35 New England Business Center
Andover, MA 01810

Project Location: Amherst, MA (UMASS - Tobin Hall)

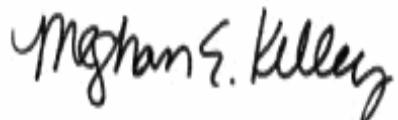
Client Job Number:

Project Number: 224733

Laboratory Work Order Number: 11G0410

Enclosed are results of analyses for samples received by the laboratory on July 15, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

REPORT DATE: 7/19/2011

Woodard & Curran - Andover, MA
 35 New England Business Center
 Andover, MA 01810
 ATTN: George Franklin

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 224733

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11G0410

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Amherst, MA (UMASS - Tobin Hall)

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TH-VBC-016	11G0410-01	Product/Solid		SW-846 8082A	
TH-VBC-017	11G0410-02	Product/Solid		SW-846 8082A	
TH-VBC-018	11G0410-03	Product/Solid		SW-846 8082A	
TH-VBCD-019	11G0410-04	Product/Solid		SW-846 8082A	
TH-VBCQ-020	11G0410-05	Water		SW-846 8082A	
TH-VBC-021	11G0410-06	Product/Solid		SW-846 8082A	
TH-VBC-022	11G0410-07	Product/Solid		SW-846 8082A	
TH-VBC-023	11G0410-08	Product/Solid		SW-846 8082A	
TH-VBC-024	11G0410-09	Product/Solid		SW-846 8082A	
TH-VBC-025	11G0410-10	Product/Solid		SW-846 8082A	
TH-VBC-026	11G0410-11	Product/Solid		SW-846 8082A	
TH-VBC-027	11G0410-12	Product/Solid		SW-846 8082A	
TH-VBC-028	11G0410-13	Product/Solid		SW-846 8082A	
TH-VBC-029	11G0410-14	Product/Solid		SW-846 8082A	
TH-VBC-030	11G0410-15	Product/Solid		SW-846 8082A	
TH-VBC-031	11G0410-16	Product/Solid		SW-846 8082A	
TH-VBC-032	11G0410-17	Product/Solid		SW-846 8082A	
TH-VBC-033	11G0410-18	Product/Solid		SW-846 8082A	
TH-VBC-034	11G0410-19	Product/Solid		SW-846 8082A	
TH-VBC-035	11G0410-20	Product/Solid		SW-846 8082A	
TH-VBC-036	11G0410-21	Product/Solid		SW-846 8082A	
TH-VBC-037	11G0410-22	Product/Solid		SW-846 8082A	
TH-VBC-038	11G0410-23	Product/Solid		SW-846 8082A	
TH-VBCD-039	11G0410-24	Product/Solid		SW-846 8082A	
TH-VBCQ-040	11G0410-25	Water		SW-846 8082A	
TH-VBC-041	11G0410-26	Product/Solid		SW-846 8082A	
TH-VBC-042	11G0410-27	Product/Solid		SW-846 8082A	
TH-VBC-043	11G0410-28	Product/Solid		SW-846 8082A	
TH-VBC-044	11G0410-29	Product/Solid		SW-846 8082A	
TH-VBC-045	11G0410-30	Product/Solid		SW-846 8082A	
TH-VBC-046	11G0410-31	Product/Solid		SW-846 8082A	
TH-VBC-047	11G0410-32	Product/Solid		SW-846 8082A	
TH-VBC-048	11G0410-33	Product/Solid		SW-846 8082A	
TH-VBC-049	11G0410-34	Product/Solid		SW-846 8082A	
TH-VBC-050	11G0410-35	Product/Solid		SW-846 8082A	
TH-VBC-051	11G0410-36	Product/Solid		SW-846 8082A	
TH-VBC-052	11G0410-37	Product/Solid		SW-846 8082A	
TH-VBC-053	11G0410-38	Product/Solid		SW-846 8082A	
TH-VBC-054	11G0410-39	Product/Solid		SW-846 8082A	
TH-VBC-055	11G0410-40	Product/Solid		SW-846 8082A	
TH-VBC-056	11G0410-41	Product/Solid		SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

REPORT DATE: 7/19/2011

Woodard & Curran - Andover, MA
35 New England Business Center
Andover, MA 01810
ATTN: George Franklin

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 224733

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11G0410

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Amherst, MA (UMASS - Tobin Hall)

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TH-VBC-057	11G0410-42	Product/Solid		SW-846 8082A	
TH-VBC-058	11G0410-43	Product/Solid		SW-846 8082A	
TH-VBCD-059	11G0410-44	Product/Solid		SW-846 8082A	
TH-VBCQ-060	11G0410-45	Water		SW-846 8082A	
TH-VBC-061	11G0410-46	Product/Solid		SW-846 8082A	
TH-VBC-062	11G0410-47	Product/Solid		SW-846 8082A	
TH-VBC-063	11G0410-48	Product/Solid		SW-846 8082A	
TH-VBC-064	11G0410-49	Product/Solid		SW-846 8082A	
TH-VBC-065	11G0410-50	Product/Solid		SW-846 8082A	
TH-VBC-066	11G0410-51	Product/Solid		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-016

Sampled: 7/15/2011 08:30

Sample ID: 11G0410-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:54	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:54	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:54	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:54	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:54	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:54	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:54	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:54	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:54	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	87.6		30-150					7/18/11 16:54	
Decachlorobiphenyl [2]	82.5		30-150					7/18/11 16:54	
Tetrachloro-m-xylene [1]	87.5		30-150					7/18/11 16:54	
Tetrachloro-m-xylene [2]	92.7		30-150					7/18/11 16:54	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-017

Sampled: 7/15/2011 09:10

Sample ID: 11G0410-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:08	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:08	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:08	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:08	PJG
Aroclor-1248 [2]	0.13	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:08	PJG
Aroclor-1254 [1]	0.12	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:08	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:08	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:08	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:08	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		86.8	30-150					7/18/11 17:08	
Decachlorobiphenyl [2]		81.9	30-150					7/18/11 17:08	
Tetrachloro-m-xylene [1]		88.3	30-150					7/18/11 17:08	
Tetrachloro-m-xylene [2]		92.7	30-150					7/18/11 17:08	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-018

Sampled: 7/15/2011 09:15

Sample ID: 11G0410-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:22	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:22	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:22	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:22	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:22	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:22	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:22	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:22	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:22	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		101	30-150					7/18/11 17:22	
Decachlorobiphenyl [2]		95.9	30-150					7/18/11 17:22	
Tetrachloro-m-xylene [1]		106	30-150					7/18/11 17:22	
Tetrachloro-m-xylene [2]		112	30-150					7/18/11 17:22	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBCD-019

Sampled: 7/15/2011 09:15

Sample ID: 11G0410-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:36	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:36	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:36	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:36	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:36	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:36	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:36	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:36	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:36	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		86.4	30-150					7/18/11 17:36	
Decachlorobiphenyl [2]		81.7	30-150					7/18/11 17:36	
Tetrachloro-m-xylene [1]		93.5	30-150					7/18/11 17:36	
Tetrachloro-m-xylene [2]		98.9	30-150					7/18/11 17:36	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBCQ-020

Sampled: 7/15/2011 09:20

Sample ID: 11G0410-05

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/15/11	7/18/11 20:00	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/15/11	7/18/11 20:00	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/15/11	7/18/11 20:00	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/15/11	7/18/11 20:00	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/15/11	7/18/11 20:00	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/15/11	7/18/11 20:00	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/15/11	7/18/11 20:00	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/15/11	7/18/11 20:00	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/15/11	7/18/11 20:00	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		47.7	30-150					7/18/11 20:00	
Decachlorobiphenyl [2]		47.5	30-150					7/18/11 20:00	
Tetrachloro-m-xylene [1]		73.5	30-150					7/18/11 20:00	
Tetrachloro-m-xylene [2]		73.7	30-150					7/18/11 20:00	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-021

Sampled: 7/15/2011 09:25

Sample ID: 11G0410-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:50	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:50	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:50	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:50	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:50	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:50	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:50	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:50	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:50	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		94.0	30-150					7/18/11 17:50	
Decachlorobiphenyl [2]		87.9	30-150					7/18/11 17:50	
Tetrachloro-m-xylene [1]		101	30-150					7/18/11 17:50	
Tetrachloro-m-xylene [2]		107	30-150					7/18/11 17:50	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-022

Sampled: 7/15/2011 09:37

Sample ID: 11G0410-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:04	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:04	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:04	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:04	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:04	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:04	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:04	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:04	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:04	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		80.4	30-150					7/18/11 18:04	
Decachlorobiphenyl [2]		75.4	30-150					7/18/11 18:04	
Tetrachloro-m-xylene [1]		83.6	30-150					7/18/11 18:04	
Tetrachloro-m-xylene [2]		87.5	30-150					7/18/11 18:04	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-023

Sampled: 7/15/2011 09:38

Sample ID: 11G0410-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:18	PJG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:18	PJG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:18	PJG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:18	PJG
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:18	PJG
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:18	PJG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:18	PJG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:18	PJG
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:18	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		85.0	30-150					7/18/11 18:18	
Decachlorobiphenyl [2]		79.8	30-150					7/18/11 18:18	
Tetrachloro-m-xylene [1]		84.3	30-150					7/18/11 18:18	
Tetrachloro-m-xylene [2]		89.8	30-150					7/18/11 18:18	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-024

Sampled: 7/15/2011 09:40

Sample ID: 11G0410-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:33	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:33	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:33	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:33	PJG
Aroclor-1248 [1]	0.14	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:33	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:33	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:33	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:33	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:33	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		107	30-150					7/18/11 18:33	
Decachlorobiphenyl [2]		98.5	30-150					7/18/11 18:33	
Tetrachloro-m-xylene [1]		104	30-150					7/18/11 18:33	
Tetrachloro-m-xylene [2]		105	30-150					7/18/11 18:33	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-025

Sampled: 7/15/2011 09:55

Sample ID: 11G0410-10

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:29	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:29	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:29	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:29	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:29	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:29	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:29	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:29	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:29	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		93.5	30-150					7/18/11 19:29	
Decachlorobiphenyl [2]		87.0	30-150					7/18/11 19:29	
Tetrachloro-m-xylene [1]		93.1	30-150					7/18/11 19:29	
Tetrachloro-m-xylene [2]		98.7	30-150					7/18/11 19:29	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-026

Sampled: 7/15/2011 10:05

Sample ID: 11G0410-11

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:43	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:43	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:43	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:43	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:43	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:43	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:43	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:43	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:43	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	94.7		30-150					7/18/11 19:43	
Decachlorobiphenyl [2]	88.3		30-150					7/18/11 19:43	
Tetrachloro-m-xylene [1]	94.4		30-150					7/18/11 19:43	
Tetrachloro-m-xylene [2]	99.7		30-150					7/18/11 19:43	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-027

Sampled: 7/15/2011 10:10

Sample ID: 11G0410-12

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:57	PJG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:57	PJG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:57	PJG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:57	PJG
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:57	PJG
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:57	PJG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:57	PJG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:57	PJG
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:57	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		109	30-150					7/18/11 19:57	
Decachlorobiphenyl [2]		102	30-150					7/18/11 19:57	
Tetrachloro-m-xylene [1]		115	30-150					7/18/11 19:57	
Tetrachloro-m-xylene [2]		121	30-150					7/18/11 19:57	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-028

Sampled: 7/15/2011 10:20

Sample ID: 11G0410-13

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:11	PJG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:11	PJG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:11	PJG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:11	PJG
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:11	PJG
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:11	PJG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:11	PJG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:11	PJG
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:11	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		82.1	30-150					7/18/11 20:11	
Decachlorobiphenyl [2]		76.1	30-150					7/18/11 20:11	
Tetrachloro-m-xylene [1]		80.9	30-150					7/18/11 20:11	
Tetrachloro-m-xylene [2]		85.1	30-150					7/18/11 20:11	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-029

Sampled: 7/15/2011 10:22

Sample ID: 11G0410-14

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:25	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:25	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:25	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:25	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:25	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:25	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:25	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:25	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:25	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		94.1	30-150					7/18/11 20:25	
Decachlorobiphenyl [2]		88.9	30-150					7/18/11 20:25	
Tetrachloro-m-xylene [1]		89.3	30-150					7/18/11 20:25	
Tetrachloro-m-xylene [2]		94.2	30-150					7/18/11 20:25	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-030

Sampled: 7/15/2011 10:25

Sample ID: 11G0410-15

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:39	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:39	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:39	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:39	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:39	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:39	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:39	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:39	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:39	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		91.6	30-150					7/18/11 20:39	
Decachlorobiphenyl [2]		84.9	30-150					7/18/11 20:39	
Tetrachloro-m-xylene [1]		95.3	30-150					7/18/11 20:39	
Tetrachloro-m-xylene [2]		100	30-150					7/18/11 20:39	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-031

Sampled: 7/15/2011 10:30

Sample ID: 11G0410-16

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:53	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:53	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:53	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:53	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:53	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:53	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:53	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:53	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:53	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		87.8	30-150					7/18/11 20:53	
Decachlorobiphenyl [2]		81.3	30-150					7/18/11 20:53	
Tetrachloro-m-xylene [1]		87.5	30-150					7/18/11 20:53	
Tetrachloro-m-xylene [2]		91.7	30-150					7/18/11 20:53	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-032

Sampled: 7/15/2011 10:40

Sample ID: 11G0410-17

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:07	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:07	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:07	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:07	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:07	PJG
Aroclor-1254 [2]	0.14	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:07	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:07	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:07	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:07	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		98.5	30-150					7/18/11 21:07	
Decachlorobiphenyl [2]		90.8	30-150					7/18/11 21:07	
Tetrachloro-m-xylene [1]		102	30-150					7/18/11 21:07	
Tetrachloro-m-xylene [2]		106	30-150					7/18/11 21:07	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-033

Sampled: 7/15/2011 10:55

Sample ID: 11G0410-18

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:21	PJG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:21	PJG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:21	PJG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:21	PJG
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:21	PJG
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:21	PJG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:21	PJG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:21	PJG
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:21	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		93.9	30-150					7/18/11 21:21	
Decachlorobiphenyl [2]		87.5	30-150					7/18/11 21:21	
Tetrachloro-m-xylene [1]		95.5	30-150					7/18/11 21:21	
Tetrachloro-m-xylene [2]		99.2	30-150					7/18/11 21:21	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-034

Sampled: 7/15/2011 11:00

Sample ID: 11G0410-19

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:35	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:35	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:35	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:35	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:35	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:35	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:35	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:35	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:35	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		92.8	30-150					7/18/11 21:35	
Decachlorobiphenyl [2]		86.3	30-150					7/18/11 21:35	
Tetrachloro-m-xylene [1]		87.3	30-150					7/18/11 21:35	
Tetrachloro-m-xylene [2]		92.4	30-150					7/18/11 21:35	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-035

Sampled: 7/15/2011 11:10

Sample ID: 11G0410-20

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:49	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:49	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:49	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:49	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:49	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:49	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:49	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:49	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 21:49	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		90.4	30-150					7/18/11 21:49	
Decachlorobiphenyl [2]		83.9	30-150					7/18/11 21:49	
Tetrachloro-m-xylene [1]		88.4	30-150					7/18/11 21:49	
Tetrachloro-m-xylene [2]		94.2	30-150					7/18/11 21:49	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-036

Sampled: 7/15/2011 11:15

Sample ID: 11G0410-21

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:40	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:40	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:40	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:40	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:40	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:40	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:40	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:40	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:40	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	81.2		30-150					7/18/11 15:40	
Decachlorobiphenyl [2]	80.9		30-150					7/18/11 15:40	
Tetrachloro-m-xylene [1]	89.6		30-150					7/18/11 15:40	
Tetrachloro-m-xylene [2]	96.9		30-150					7/18/11 15:40	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-037

Sampled: 7/15/2011 11:20

Sample ID: 11G0410-22

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:53	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:53	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:53	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:53	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:53	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:53	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:53	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:53	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 15:53	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		79.2	30-150					7/18/11 15:53	
Decachlorobiphenyl [2]		79.2	30-150					7/18/11 15:53	
Tetrachloro-m-xylene [1]		98.1	30-150					7/18/11 15:53	
Tetrachloro-m-xylene [2]		107	30-150					7/18/11 15:53	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-038

Sampled: 7/15/2011 11:25

Sample ID: 11G0410-23

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:06	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:06	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:06	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:06	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:06	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:06	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:06	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:06	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:06	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		78.0	30-150					7/18/11 16:06	
Decachlorobiphenyl [2]		78.2	30-150					7/18/11 16:06	
Tetrachloro-m-xylene [1]		94.7	30-150					7/18/11 16:06	
Tetrachloro-m-xylene [2]		104	30-150					7/18/11 16:06	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBCD-039

Sampled: 7/15/2011 11:25

Sample ID: 11G0410-24

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:19	PJG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:19	PJG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:19	PJG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:19	PJG
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:19	PJG
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:19	PJG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:19	PJG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:19	PJG
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:19	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		81.4	30-150					7/18/11 16:19	
Decachlorobiphenyl [2]		81.3	30-150					7/18/11 16:19	
Tetrachloro-m-xylene [1]		98.2	30-150					7/18/11 16:19	
Tetrachloro-m-xylene [2]		106	30-150					7/18/11 16:19	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBCQ-040

Sampled: 7/15/2011 11:26

Sample ID: 11G0410-25

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:27	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:27	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:27	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:27	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:27	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:27	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:27	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:27	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:27	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		90.6	30-150					7/19/11 14:27	
Decachlorobiphenyl [2]		69.8	30-150					7/19/11 14:27	
Tetrachloro-m-xylene [1]		87.7	30-150					7/19/11 14:27	
Tetrachloro-m-xylene [2]		67.0	30-150					7/19/11 14:27	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-041

Sampled: 7/15/2011 11:30

Sample ID: 11G0410-26

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:32	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:32	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:32	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:32	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:32	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:32	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:32	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:32	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:32	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		88.8	30-150					7/18/11 16:32	
Decachlorobiphenyl [2]		87.9	30-150					7/18/11 16:32	
Tetrachloro-m-xylene [1]		95.5	30-150					7/18/11 16:32	
Tetrachloro-m-xylene [2]		102	30-150					7/18/11 16:32	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-042

Sampled: 7/15/2011 11:35

Sample ID: 11G0410-27

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:45	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:45	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:45	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:45	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:45	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:45	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:45	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:45	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:45	PJG
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	75.1		30-150					7/18/11 16:45	
Decachlorobiphenyl [2]	75.7		30-150					7/18/11 16:45	
Tetrachloro-m-xylene [1]	92.6		30-150					7/18/11 16:45	
Tetrachloro-m-xylene [2]	102		30-150					7/18/11 16:45	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-043

Sampled: 7/15/2011 11:40

Sample ID: 11G0410-28

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:58	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:58	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:58	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:58	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:58	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:58	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:58	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:58	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 16:58	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		82.1	30-150					7/18/11 16:58	
Decachlorobiphenyl [2]		82.1	30-150					7/18/11 16:58	
Tetrachloro-m-xylene [1]		97.1	30-150					7/18/11 16:58	
Tetrachloro-m-xylene [2]		104	30-150					7/18/11 16:58	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-044

Sampled: 7/15/2011 11:47

Sample ID: 11G0410-29

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:11	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:11	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:11	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:11	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:11	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:11	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:11	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:11	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:11	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		83.5	30-150					7/18/11 17:11	
Decachlorobiphenyl [2]		83.2	30-150					7/18/11 17:11	
Tetrachloro-m-xylene [1]		93.6	30-150					7/18/11 17:11	
Tetrachloro-m-xylene [2]		102	30-150					7/18/11 17:11	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-045

Sampled: 7/15/2011 11:53

Sample ID: 11G0410-30

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:24	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:24	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:24	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:24	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:24	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:24	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:24	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:24	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 17:24	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		94.9	30-150					7/18/11 17:24	
Decachlorobiphenyl [2]		94.3	30-150					7/18/11 17:24	
Tetrachloro-m-xylene [1]		94.5	30-150					7/18/11 17:24	
Tetrachloro-m-xylene [2]		101	30-150					7/18/11 17:24	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-046

Sampled: 7/15/2011 11:59

Sample ID: 11G0410-31

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:17	PJG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:17	PJG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:17	PJG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:17	PJG
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:17	PJG
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:17	PJG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:17	PJG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:17	PJG
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:17	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		87.4	30-150					7/18/11 18:17	
Decachlorobiphenyl [2]		88.8	30-150					7/18/11 18:17	
Tetrachloro-m-xylene [1]		92.9	30-150					7/18/11 18:17	
Tetrachloro-m-xylene [2]		101	30-150					7/18/11 18:17	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-047

Sampled: 7/15/2011 12:05

Sample ID: 11G0410-32

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:30	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:30	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:30	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:30	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:30	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:30	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:30	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:30	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:30	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		90.7	30-150					7/18/11 18:30	
Decachlorobiphenyl [2]		91.9	30-150					7/18/11 18:30	
Tetrachloro-m-xylene [1]		91.0	30-150					7/18/11 18:30	
Tetrachloro-m-xylene [2]		100	30-150					7/18/11 18:30	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-048

Sampled: 7/15/2011 12:10

Sample ID: 11G0410-33

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:43	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:43	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:43	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:43	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:43	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:43	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:43	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:43	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:43	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		76.8	30-150					7/18/11 18:43	
Decachlorobiphenyl [2]		78.8	30-150					7/18/11 18:43	
Tetrachloro-m-xylene [1]		94.8	30-150					7/18/11 18:43	
Tetrachloro-m-xylene [2]		105	30-150					7/18/11 18:43	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-049

Sampled: 7/15/2011 12:15

Sample ID: 11G0410-34

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:56	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:56	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:56	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:56	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:56	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:56	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:56	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:56	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 18:56	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		69.3	30-150					7/18/11 18:56	
Decachlorobiphenyl [2]		71.6	30-150					7/18/11 18:56	
Tetrachloro-m-xylene [1]		89.3	30-150					7/18/11 18:56	
Tetrachloro-m-xylene [2]		98.3	30-150					7/18/11 18:56	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-050

Sampled: 7/15/2011 12:20

Sample ID: 11G0410-35

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:09	PJG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:09	PJG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:09	PJG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:09	PJG
Aroclor-1248 [1]	0.31	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:09	PJG
Aroclor-1254 [1]	0.54	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:09	PJG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:09	PJG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:09	PJG
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:09	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		77.4	30-150					7/18/11 19:09	
Decachlorobiphenyl [2]		79.7	30-150					7/18/11 19:09	
Tetrachloro-m-xylene [1]		92.9	30-150					7/18/11 19:09	
Tetrachloro-m-xylene [2]		102	30-150					7/18/11 19:09	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-051

Sampled: 7/15/2011 12:25

Sample ID: 11G0410-36

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:22	PJG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:22	PJG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:22	PJG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:22	PJG
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:22	PJG
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:22	PJG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:22	PJG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:22	PJG
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:22	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		79.5	30-150					7/18/11 19:22	
Decachlorobiphenyl [2]		81.5	30-150					7/18/11 19:22	
Tetrachloro-m-xylene [1]		98.7	30-150					7/18/11 19:22	
Tetrachloro-m-xylene [2]		108	30-150					7/18/11 19:22	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-052

Sampled: 7/15/2011 12:30

Sample ID: 11G0410-37

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:35	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:35	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:35	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:35	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:35	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:35	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:35	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:35	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:35	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		86.3	30-150					7/18/11 19:35	
Decachlorobiphenyl [2]		88.3	30-150					7/18/11 19:35	
Tetrachloro-m-xylene [1]		99.4	30-150					7/18/11 19:35	
Tetrachloro-m-xylene [2]		110	30-150					7/18/11 19:35	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-053

Sampled: 7/15/2011 12:35

Sample ID: 11G0410-38

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:48	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:48	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:48	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:48	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:48	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:48	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:48	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:48	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 19:48	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		80.9	30-150					7/18/11 19:48	
Decachlorobiphenyl [2]		82.7	30-150					7/18/11 19:48	
Tetrachloro-m-xylene [1]		92.5	30-150					7/18/11 19:48	
Tetrachloro-m-xylene [2]		104	30-150					7/18/11 19:48	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-054

Sampled: 7/15/2011 12:40

Sample ID: 11G0410-39

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:01	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:01	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:01	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:01	PJG
Aroclor-1248 [1]	0.21	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:01	PJG
Aroclor-1254 [1]	0.30	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:01	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:01	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:01	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:01	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		81.4	30-150					7/18/11 20:01	
Decachlorobiphenyl [2]		82.9	30-150					7/18/11 20:01	
Tetrachloro-m-xylene [1]		94.6	30-150					7/18/11 20:01	
Tetrachloro-m-xylene [2]		105	30-150					7/18/11 20:01	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-055

Sampled: 7/15/2011 12:45

Sample ID: 11G0410-40

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:15	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:15	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:15	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:15	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:15	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:15	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:15	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:15	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/15/11	7/18/11 20:15	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		75.7	30-150					7/18/11 20:15	
Decachlorobiphenyl [2]		77.1	30-150					7/18/11 20:15	
Tetrachloro-m-xylene [1]		96.5	30-150					7/18/11 20:15	
Tetrachloro-m-xylene [2]		107	30-150					7/18/11 20:15	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-056

Sampled: 7/15/2011 12:50

Sample ID: 11G0410-41

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:06	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:06	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:06	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:06	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:06	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:06	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:06	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:06	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:06	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		59.4	30-150					7/18/11 12:06	
Decachlorobiphenyl [2]		58.3	30-150					7/18/11 12:06	
Tetrachloro-m-xylene [1]		59.3	30-150					7/18/11 12:06	
Tetrachloro-m-xylene [2]		59.9	30-150					7/18/11 12:06	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-057

Sampled: 7/15/2011 12:55

Sample ID: 11G0410-42

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:19	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:19	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:19	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:19	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:19	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:19	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:19	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:19	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:19	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		97.3	30-150					7/18/11 12:19	
Decachlorobiphenyl [2]		95.3	30-150					7/18/11 12:19	
Tetrachloro-m-xylene [1]		95.2	30-150					7/18/11 12:19	
Tetrachloro-m-xylene [2]		95.3	30-150					7/18/11 12:19	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-058

Sampled: 7/15/2011 13:00

Sample ID: 11G0410-43

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:34	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:34	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:34	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:34	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:34	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:34	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:34	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:34	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:34	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		44.2	30-150					7/18/11 12:34	
Decachlorobiphenyl [2]		44.4	30-150					7/18/11 12:34	
Tetrachloro-m-xylene [1]		43.2	30-150					7/18/11 12:34	
Tetrachloro-m-xylene [2]		44.1	30-150					7/18/11 12:34	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBCD-059

Sampled: 7/15/2011 13:00

Sample ID: 11G0410-44

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:47	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:47	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:47	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:47	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:47	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:47	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:47	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:47	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:47	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		72.8	30-150					7/18/11 12:47	
Decachlorobiphenyl [2]		71.5	30-150					7/18/11 12:47	
Tetrachloro-m-xylene [1]		77.1	30-150					7/18/11 12:47	
Tetrachloro-m-xylene [2]		77.0	30-150					7/18/11 12:47	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBCQ-060

Sampled: 7/15/2011 13:02

Sample ID: 11G0410-45

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:41	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:41	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:41	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:41	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:41	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:41	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:41	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:41	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/19/11	7/19/11 14:41	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		90.2	30-150					7/19/11 14:41	
Decachlorobiphenyl [2]		69.5	30-150					7/19/11 14:41	
Tetrachloro-m-xylene [1]		82.8	30-150					7/19/11 14:41	
Tetrachloro-m-xylene [2]		63.2	30-150					7/19/11 14:41	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-061

Sampled: 7/15/2011 13:05

Sample ID: 11G0410-46

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:59	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:59	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:59	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:59	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:59	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:59	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:59	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:59	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 12:59	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		89.5	30-150					7/18/11 12:59	
Decachlorobiphenyl [2]		87.6	30-150					7/18/11 12:59	
Tetrachloro-m-xylene [1]		89.8	30-150					7/18/11 12:59	
Tetrachloro-m-xylene [2]		89.6	30-150					7/18/11 12:59	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-062

Sampled: 7/15/2011 13:10

Sample ID: 11G0410-47

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:12	PJG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:12	PJG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:12	PJG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:12	PJG
Aroclor-1248 [1]	0.13	0.087	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:12	PJG
Aroclor-1254 [1]	0.099	0.087	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:12	PJG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:12	PJG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:12	PJG
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:12	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		48.6	30-150					7/18/11 13:12	
Decachlorobiphenyl [2]		47.8	30-150					7/18/11 13:12	
Tetrachloro-m-xylene [1]		49.6	30-150					7/18/11 13:12	
Tetrachloro-m-xylene [2]		50.4	30-150					7/18/11 13:12	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-063

Sampled: 7/15/2011 13:15

Sample ID: 11G0410-48

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:25	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:25	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:25	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:25	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:25	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:25	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:25	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:25	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:25	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		82.6	30-150					7/18/11 13:25	
Decachlorobiphenyl [2]		80.8	30-150					7/18/11 13:25	
Tetrachloro-m-xylene [1]		87.9	30-150					7/18/11 13:25	
Tetrachloro-m-xylene [2]		87.4	30-150					7/18/11 13:25	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-064

Sampled: 7/15/2011 13:20

Sample ID: 11G0410-49

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:38	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:38	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:38	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:38	PJG
Aroclor-1248 [2]	0.32	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:38	PJG
Aroclor-1254 [2]	0.31	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:38	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:38	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:38	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:38	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		99.7	30-150					7/18/11 13:38	
Decachlorobiphenyl [2]		95.9	30-150					7/18/11 13:38	
Tetrachloro-m-xylene [1]		95.9	30-150					7/18/11 13:38	
Tetrachloro-m-xylene [2]		95.7	30-150					7/18/11 13:38	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-065

Sampled: 7/15/2011 13:25

Sample ID: 11G0410-50

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:50	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:50	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:50	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:50	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:50	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:50	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:50	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:50	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 13:50	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		64.3	30-150					7/18/11 13:50	
Decachlorobiphenyl [2]		63.3	30-150					7/18/11 13:50	
Tetrachloro-m-xylene [1]		66.2	30-150					7/18/11 13:50	
Tetrachloro-m-xylene [2]		67.6	30-150					7/18/11 13:50	

Project Location: Amherst, MA (UMASS - Tobin H)

Sample Description:

Work Order: 11G0410

Date Received: 7/15/2011

Field Sample #: TH-VBC-066

Sampled: 7/15/2011 13:30

Sample ID: 11G0410-51

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 14:03	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 14:03	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 14:03	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 14:03	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 14:03	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 14:03	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 14:03	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 14:03	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/16/11	7/18/11 14:03	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		106	30-150					7/18/11 14:03	
Decachlorobiphenyl [2]		103	30-150					7/18/11 14:03	
Tetrachloro-m-xylene [1]		108	30-150					7/18/11 14:03	
Tetrachloro-m-xylene [2]		108	30-150					7/18/11 14:03	

Sample Extraction Data
Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11G0410-01 [TH-VBC-016]	B033772	2.00	10.0	07/15/11
11G0410-02 [TH-VBC-017]	B033772	2.10	10.0	07/15/11
11G0410-03 [TH-VBC-018]	B033772	2.20	10.0	07/15/11
11G0410-04 [TH-VBCD-019]	B033772	2.10	10.0	07/15/11
11G0410-06 [TH-VBC-021]	B033772	2.20	10.0	07/15/11
11G0410-07 [TH-VBC-022]	B033772	2.10	10.0	07/15/11
11G0410-08 [TH-VBC-023]	B033772	2.30	10.0	07/15/11
11G0410-09 [TH-VBC-024]	B033772	2.20	10.0	07/15/11
11G0410-10 [TH-VBC-025]	B033772	2.20	10.0	07/15/11
11G0410-11 [TH-VBC-026]	B033772	2.10	10.0	07/15/11
11G0410-12 [TH-VBC-027]	B033772	2.30	10.0	07/15/11
11G0410-13 [TH-VBC-028]	B033772	2.30	10.0	07/15/11
11G0410-14 [TH-VBC-029]	B033772	2.00	10.0	07/15/11
11G0410-15 [TH-VBC-030]	B033772	2.00	10.0	07/15/11
11G0410-16 [TH-VBC-031]	B033772	2.10	10.0	07/15/11
11G0410-17 [TH-VBC-032]	B033772	2.00	10.0	07/15/11
11G0410-18 [TH-VBC-033]	B033772	2.30	10.0	07/15/11
11G0410-19 [TH-VBC-034]	B033772	2.00	10.0	07/15/11
11G0410-20 [TH-VBC-035]	B033772	2.20	10.0	07/15/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11G0410-21 [TH-VBC-036]	B033774	2.10	10.0	07/15/11
11G0410-22 [TH-VBC-037]	B033774	2.00	10.0	07/15/11
11G0410-23 [TH-VBC-038]	B033774	2.20	10.0	07/15/11
11G0410-24 [TH-VBCD-039]	B033774	2.30	10.0	07/15/11
11G0410-26 [TH-VBC-041]	B033774	2.10	10.0	07/15/11
11G0410-27 [TH-VBC-042]	B033774	2.10	10.0	07/15/11
11G0410-28 [TH-VBC-043]	B033774	2.10	10.0	07/15/11
11G0410-29 [TH-VBC-044]	B033774	2.20	10.0	07/15/11
11G0410-30 [TH-VBC-045]	B033774	2.20	10.0	07/15/11
11G0410-31 [TH-VBC-046]	B033774	2.30	10.0	07/15/11
11G0410-32 [TH-VBC-047]	B033774	2.10	10.0	07/15/11
11G0410-33 [TH-VBC-048]	B033774	2.20	10.0	07/15/11
11G0410-34 [TH-VBC-049]	B033774	2.20	10.0	07/15/11
11G0410-35 [TH-VBC-050]	B033774	2.30	10.0	07/15/11
11G0410-36 [TH-VBC-051]	B033774	2.30	10.0	07/15/11
11G0410-37 [TH-VBC-052]	B033774	2.00	10.0	07/15/11
11G0410-38 [TH-VBC-053]	B033774	2.00	10.0	07/15/11
11G0410-39 [TH-VBC-054]	B033774	2.00	10.0	07/15/11
11G0410-40 [TH-VBC-055]	B033774	2.00	10.0	07/15/11

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11G0410-41 [TH-VBC-056]	B033777	2.00	10.0	07/16/11
11G0410-42 [TH-VBC-057]	B033777	2.00	10.0	07/16/11
11G0410-43 [TH-VBC-058]	B033777	2.10	10.0	07/16/11
11G0410-44 [TH-VBCD-059]	B033777	2.10	10.0	07/16/11
11G0410-46 [TH-VBC-061]	B033777	2.10	10.0	07/16/11
11G0410-47 [TH-VBC-062]	B033777	2.30	10.0	07/16/11
11G0410-48 [TH-VBC-063]	B033777	2.20	10.0	07/16/11

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11G0410-49 [TH-VBC-064]	B033777	2.10	10.0	07/16/11
11G0410-50 [TH-VBC-065]	B033777	2.00	10.0	07/16/11
11G0410-51 [TH-VBC-066]	B033777	2.10	10.0	07/16/11

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11G0410-05 [TH-VBCQ-020]	B033715	1000	10.0	07/15/11

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11G0410-25RE1 [TH-VBCQ-040]	B033882	1000	10.0	07/19/11
11G0410-45RE1 [TH-VBCQ-060]	B033882	1000	10.0	07/19/11

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch B033715 - SW-846 3510C

Blank (B033715-BLK1)										Prepared: 07/15/11 Analyzed: 07/18/11
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	2.00		µg/L	2.00		100		30-150		
Surrogate: Decachlorobiphenyl [2C]	1.95		µg/L	2.00		97.3		30-150		
Surrogate: Tetrachloro-m-xylene	1.99		µg/L	2.00		99.7		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	1.95		µg/L	2.00		97.5		30-150		

LCS (B033715-BS1)										Prepared: 07/15/11 Analyzed: 07/18/11
Aroclor-1016	0.56	0.20	µg/L	0.500		111		40-140		
Aroclor-1016 [2C]	0.57	0.20	µg/L	0.500		114		40-140		
Aroclor-1260	0.52	0.20	µg/L	0.500		105		40-140		
Aroclor-1260 [2C]	0.56	0.20	µg/L	0.500		113		40-140		
Surrogate: Decachlorobiphenyl	2.04		µg/L	2.00		102		30-150		
Surrogate: Decachlorobiphenyl [2C]	1.99		µg/L	2.00		99.4		30-150		
Surrogate: Tetrachloro-m-xylene	1.99		µg/L	2.00		99.6		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	1.95		µg/L	2.00		97.7		30-150		

LCS Dup (B033715-BSD1)										Prepared: 07/15/11 Analyzed: 07/18/11
Aroclor-1016	0.57	0.20	µg/L	0.500		115		40-140	3.10	20
Aroclor-1016 [2C]	0.59	0.20	µg/L	0.500		117		40-140	3.08	20
Aroclor-1260	0.54	0.20	µg/L	0.500		108		40-140	3.28	20
Aroclor-1260 [2C]	0.58	0.20	µg/L	0.500		117		40-140	3.29	20
Surrogate: Decachlorobiphenyl	2.05		µg/L	2.00		103		30-150		
Surrogate: Decachlorobiphenyl [2C]	1.99		µg/L	2.00		99.4		30-150		
Surrogate: Tetrachloro-m-xylene	2.02		µg/L	2.00		101		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	1.99		µg/L	2.00		99.7		30-150		

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch B033772 - SW-846 3540C
Blank (B033772-BLK1)

Prepared: 07/15/11 Analyzed: 07/18/11

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.948		mg/Kg	1.00		94.8		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.895		mg/Kg	1.00		89.5		30-150		
Surrogate: Tetrachloro-m-xylene	0.916		mg/Kg	1.00		91.6		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.982		mg/Kg	1.00		98.2		30-150		

LCS (B033772-BS1)

Prepared: 07/15/11 Analyzed: 07/18/11

Aroclor-1016	0.25	0.10	mg/Kg	0.250		99.3		40-140		
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		114		40-140		
Aroclor-1260	0.25	0.10	mg/Kg	0.250		101		40-140		
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		104		40-140		
Surrogate: Decachlorobiphenyl	0.937		mg/Kg	1.00		93.7		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.887		mg/Kg	1.00		88.7		30-150		
Surrogate: Tetrachloro-m-xylene	0.872		mg/Kg	1.00		87.2		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.938		mg/Kg	1.00		93.8		30-150		

LCS Dup (B033772-BSD1)

Prepared: 07/15/11 Analyzed: 07/18/11

Aroclor-1016	0.25	0.10	mg/Kg	0.250		98.8		40-140	0.464	30
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		111		40-140	2.59	30
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.6		40-140	4.08	30
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		99.9		40-140	3.76	30
Surrogate: Decachlorobiphenyl	0.889		mg/Kg	1.00		88.9		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.836		mg/Kg	1.00		83.6		30-150		
Surrogate: Tetrachloro-m-xylene	0.876		mg/Kg	1.00		87.6		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.955		mg/Kg	1.00		95.5		30-150		

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch B033772 - SW-846 3540C

Matrix Spike (B033772-MS1)	Source: 11G0410-01			Prepared: 07/15/11 Analyzed: 07/18/11					
Aroclor-1016	0.23	0.087	mg/Kg	0.217	0.0	108	40-140		
Aroclor-1016 [2C]	0.27	0.087	mg/Kg	0.217	0.0	122	40-140		
Aroclor-1260	0.22	0.087	mg/Kg	0.217	0.0	102	40-140		
Aroclor-1260 [2C]	0.23	0.087	mg/Kg	0.217	0.0	104	40-140		
Surrogate: Decachlorobiphenyl	0.827		mg/Kg	0.870		95.2	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.766		mg/Kg	0.870		88.1	30-150		
Surrogate: Tetrachloro-m-xylene	0.792		mg/Kg	0.870		91.1	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.848		mg/Kg	0.870		97.5	30-150		
Matrix Spike Dup (B033772-MSD1)	Source: 11G0410-01			Prepared: 07/15/11 Analyzed: 07/18/11					
Aroclor-1016	0.29	0.095	mg/Kg	0.238	0.0	123	40-140	22.2	50
Aroclor-1016 [2C]	0.33	0.095	mg/Kg	0.238	0.0	138	40-140	21.5	50
Aroclor-1260	0.26	0.095	mg/Kg	0.238	0.0	109	40-140	15.1	50
Aroclor-1260 [2C]	0.27	0.095	mg/Kg	0.238	0.0	114	40-140	18.8	50
Surrogate: Decachlorobiphenyl	0.941		mg/Kg	0.952		98.8	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.886		mg/Kg	0.952		93.0	30-150		
Surrogate: Tetrachloro-m-xylene	0.901		mg/Kg	0.952		94.6	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.954		mg/Kg	0.952		100	30-150		

Batch B033774 - SW-846 3540C

Blank (B033774-BLK1)	Prepared: 07/15/11 Analyzed: 07/18/11								
Aroclor-1016	ND	0.10	mg/Kg						
Aroclor-1016 [2C]	ND	0.10	mg/Kg						
Aroclor-1221	ND	0.10	mg/Kg						
Aroclor-1221 [2C]	ND	0.10	mg/Kg						
Aroclor-1232	ND	0.10	mg/Kg						
Aroclor-1232 [2C]	ND	0.10	mg/Kg						
Aroclor-1242	ND	0.10	mg/Kg						
Aroclor-1242 [2C]	ND	0.10	mg/Kg						
Aroclor-1248	ND	0.10	mg/Kg						
Aroclor-1248 [2C]	ND	0.10	mg/Kg						
Aroclor-1254	ND	0.10	mg/Kg						
Aroclor-1254 [2C]	ND	0.10	mg/Kg						
Aroclor-1260	ND	0.10	mg/Kg						
Aroclor-1260 [2C]	ND	0.10	mg/Kg						
Aroclor-1262	ND	0.10	mg/Kg						
Aroclor-1262 [2C]	ND	0.10	mg/Kg						
Aroclor-1268	ND	0.10	mg/Kg						
Aroclor-1268 [2C]	ND	0.10	mg/Kg						
Surrogate: Decachlorobiphenyl	1.01		mg/Kg	1.00	101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.988		mg/Kg	1.00	98.8	30-150			
Surrogate: Tetrachloro-m-xylene	1.18		mg/Kg	1.00	118	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.24		mg/Kg	1.00	124	30-150			

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
Batch B033774 - SW-846 3540C									
LCS (B033774-BS1)									
Prepared: 07/15/11 Analyzed: 07/18/11									
Aroclor-1016	0.30	0.10	mg/Kg	0.250	119	40-140			
Aroclor-1016 [2C]	0.35	0.10	mg/Kg	0.250	140	40-140			
Aroclor-1260	0.30	0.10	mg/Kg	0.250	120	40-140			
Aroclor-1260 [2C]	0.32	0.10	mg/Kg	0.250	130	40-140			
Surrogate: Decachlorobiphenyl	1.02		mg/Kg	1.00	102	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.00		mg/Kg	1.00	100	30-150			
Surrogate: Tetrachloro-m-xylene	1.33		mg/Kg	1.00	133	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.39		mg/Kg	1.00	139	30-150			
LCS Dup (B033774-BSD1)									
Prepared: 07/15/11 Analyzed: 07/18/11									
Aroclor-1016	0.30	0.10	mg/Kg	0.250	120	40-140	0.498	30	
Aroclor-1016 [2C]	0.35	0.10	mg/Kg	0.250	139	40-140	0.232	30	
Aroclor-1260	0.31	0.10	mg/Kg	0.250	124	40-140	3.52	30	
Aroclor-1260 [2C]	0.34	0.10	mg/Kg	0.250	136	40-140	4.76	30	
Surrogate: Decachlorobiphenyl	1.06		mg/Kg	1.00	106	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.05		mg/Kg	1.00	105	30-150			
Surrogate: Tetrachloro-m-xylene	1.28		mg/Kg	1.00	128	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.35		mg/Kg	1.00	135	30-150			
Matrix Spike (B033774-MS1)									
Source: 11G0410-21 Prepared: 07/15/11 Analyzed: 07/18/11									
Aroclor-1016	0.24	0.087	mg/Kg	0.217	0.0	112	40-140		
Aroclor-1016 [2C]	0.26	0.087	mg/Kg	0.217	0.0	121	40-140		
Aroclor-1260	0.21	0.087	mg/Kg	0.217	0.0	97.3	40-140		
Aroclor-1260 [2C]	0.24	0.087	mg/Kg	0.217	0.0	110	40-140		
Surrogate: Decachlorobiphenyl	0.615		mg/Kg	0.870		70.8	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.627		mg/Kg	0.870		72.1	30-150		
Surrogate: Tetrachloro-m-xylene	0.892		mg/Kg	0.870		103	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.970		mg/Kg	0.870		112	30-150		
Matrix Spike Dup (B033774-MSD1)									
Source: 11G0410-21 Prepared: 07/15/11 Analyzed: 07/18/11									
Aroclor-1016	0.26	0.091	mg/Kg	0.227	0.0	114	40-140	6.77	50
Aroclor-1016 [2C]	0.27	0.091	mg/Kg	0.227	0.0	119	40-140	2.78	50
Aroclor-1260	0.23	0.091	mg/Kg	0.227	0.0	103	40-140	10.5	50
Aroclor-1260 [2C]	0.26	0.091	mg/Kg	0.227	0.0	114	40-140	7.34	50
Surrogate: Decachlorobiphenyl	0.686		mg/Kg	0.909		75.5	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.692		mg/Kg	0.909		76.1	30-150		
Surrogate: Tetrachloro-m-xylene	0.897		mg/Kg	0.909		98.7	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	1.00		mg/Kg	0.909		110	30-150		
Batch B033777 - SW-846 3540C									
Blank (B033777-BLK1)									
Prepared: 07/16/11 Analyzed: 07/18/11									
Aroclor-1016	ND	0.10	mg/Kg						
Aroclor-1016 [2C]	ND	0.10	mg/Kg						
Aroclor-1221	ND	0.10	mg/Kg						
Aroclor-1221 [2C]	ND	0.10	mg/Kg						
Aroclor-1232	ND	0.10	mg/Kg						
Aroclor-1232 [2C]	ND	0.10	mg/Kg						
Aroclor-1242	ND	0.10	mg/Kg						
Aroclor-1242 [2C]	ND	0.10	mg/Kg						
Aroclor-1248	ND	0.10	mg/Kg						
Aroclor-1248 [2C]	ND	0.10	mg/Kg						
Aroclor-1254	ND	0.10	mg/Kg						

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch B033777 - SW-846 3540C

Blank (B033777-BLK1)	Prepared: 07/16/11 Analyzed: 07/18/11								
Aroclor-1254 [2C]	ND	0.10	mg/Kg						
Aroclor-1260	ND	0.10	mg/Kg						
Aroclor-1260 [2C]	ND	0.10	mg/Kg						
Aroclor-1262	ND	0.10	mg/Kg						
Aroclor-1262 [2C]	ND	0.10	mg/Kg						
Aroclor-1268	ND	0.10	mg/Kg						
Aroclor-1268 [2C]	ND	0.10	mg/Kg						
Surrogate: Decachlorobiphenyl	0.942		mg/Kg	1.00	94.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.920		mg/Kg	1.00	92.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.940		mg/Kg	1.00	94.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.936		mg/Kg	1.00	93.6	30-150			
LCS (B033777-BS1)	Prepared: 07/16/11 Analyzed: 07/18/11								
Aroclor-1016	0.24	0.10	mg/Kg	0.250	96.3	40-140			
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250	107	40-140			
Aroclor-1260	0.24	0.10	mg/Kg	0.250	96.5	40-140			
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250	104	40-140			
Surrogate: Decachlorobiphenyl	0.849		mg/Kg	1.00	84.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.832		mg/Kg	1.00	83.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.834		mg/Kg	1.00	83.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.830		mg/Kg	1.00	83.0	30-150			
LCS Dup (B033777-BSD1)	Prepared: 07/16/11 Analyzed: 07/18/11								
Aroclor-1016	0.24	0.10	mg/Kg	0.250	97.2	40-140	0.864	30	
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250	108	40-140	1.07	30	
Aroclor-1260	0.23	0.10	mg/Kg	0.250	93.8	40-140	2.81	30	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250	100	40-140	3.44	30	
Surrogate: Decachlorobiphenyl	0.895		mg/Kg	1.00	89.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.878		mg/Kg	1.00	87.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.911		mg/Kg	1.00	91.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.908		mg/Kg	1.00	90.8	30-150			
Matrix Spike (B033777-MS1)	Source: 11G0410-48			Prepared: 07/16/11 Analyzed: 07/19/11					
Aroclor-1016	0.17	0.091	mg/Kg	0.227	0.0	75.8	40-140		
Aroclor-1016 [2C]	0.22	0.091	mg/Kg	0.227	0.0	95.0	40-140		
Aroclor-1260	0.20	0.091	mg/Kg	0.227	0.0	87.6	40-140		
Aroclor-1260 [2C]	0.21	0.091	mg/Kg	0.227	0.0	92.7	40-140		
Surrogate: Decachlorobiphenyl	0.801		mg/Kg	0.909		88.1	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.786		mg/Kg	0.909		86.5	30-150		
Surrogate: Tetrachloro-m-xylene	0.782		mg/Kg	0.909		86.1	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.773		mg/Kg	0.909		85.0	30-150		
Matrix Spike Dup (B033777-MSD1)	Source: 11G0410-48			Prepared: 07/16/11 Analyzed: 07/18/11					
Aroclor-1016	0.22	0.10	mg/Kg	0.250	0.0	86.9	40-140	23.1	50
Aroclor-1016 [2C]	0.24	0.10	mg/Kg	0.250	0.0	94.1	40-140	8.66	50
Aroclor-1260	0.21	0.10	mg/Kg	0.250	0.0	84.5	40-140	5.93	50
Aroclor-1260 [2C]	0.23	0.10	mg/Kg	0.250	0.0	91.7	40-140	8.47	50
Surrogate: Decachlorobiphenyl	0.861		mg/Kg	1.00		86.1	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.843		mg/Kg	1.00		84.3	30-150		
Surrogate: Tetrachloro-m-xylene	0.850		mg/Kg	1.00		85.0	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.842		mg/Kg	1.00		84.2	30-150		

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-----------	-------

Batch B033882 - SW-846 3510C

Blank (B033882-BLK1)					Prepared & Analyzed: 07/19/11					
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	2.33		µg/L	2.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.86		µg/L	2.00		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	2.12		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.61		µg/L	2.00		80.6	30-150			

LCS (B033882-BS1)					Prepared & Analyzed: 07/19/11					
Aroclor-1016	0.57	0.20	µg/L	0.500		114	40-140			
Aroclor-1016 [2C]	0.59	0.20	µg/L	0.500		118	40-140			
Aroclor-1260	0.64	0.20	µg/L	0.500		127	40-140			
Aroclor-1260 [2C]	0.57	0.20	µg/L	0.500		114	40-140			
Surrogate: Decachlorobiphenyl	2.61		µg/L	2.00		131	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.07		µg/L	2.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	2.46		µg/L	2.00		123	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.92		µg/L	2.00		96.0	30-150			

LCS Dup (B033882-BSD1)					Prepared & Analyzed: 07/19/11					
Aroclor-1016	0.52	0.20	µg/L	0.500		104	40-140	9.09	20	
Aroclor-1016 [2C]	0.57	0.20	µg/L	0.500		114	40-140	3.28	20	
Aroclor-1260	0.58	0.20	µg/L	0.500		115	40-140	10.0	20	
Aroclor-1260 [2C]	0.56	0.20	µg/L	0.500		112	40-140	1.10	20	
Surrogate: Decachlorobiphenyl	2.63		µg/L	2.00		132	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.08		µg/L	2.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	2.49		µg/L	2.00		124	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.95		µg/L	2.00		97.5	30-150			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1221	CT,NH,NY,RI,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1232	CT,NH,NY,RI,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1242	CT,NH,NY,RI,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NH,NY,RI,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1254	CT,NH,NY,RI,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1260	CT,NH,NY,RI,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of b

Company Name: WOODARD + CURRAN

Telephone: (478) 557-8150
Project #: 224-733

Address: 35 N.E. BUSINESS GR., SUITE 180

Client PO#

ANALYSIS REQUESTED

of Containers

**Preservation

***Container Code

Attention: GREECE, FRANKLIN

DATA DELIVERY (check all that apply)

Dissolved Metals

O Field Filtered

O Lab to Filter

Project Location: Amherst, MA (UMASS - TRIN HALL)

Fax # 413-545-2000

O Dissolved Metal

O Dissolved Metal

O Dissolved Metal

Sampled By: S. Keenan, B. Gregory

Email: jane@franklinma.org

O Dissolved Metal

O Dissolved Metal

O Dissolved Metal

Project Proposal Provided? (for billing purposes)
 yes proposal date

Format:

PDF EXCEL OGIS
 OTHER

O Dissolved Metal

O Dissolved Metal

O Dissolved Metal

Con-Test Lab ID	Client Sample ID / Description	Collection						*Matrix Code	(Soxhlet Extraction)
		Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Code	Sample ID		
01	TH-VBC-016	7/15/11	0830	✓	0	L	X		
02	TH-VBC-017		0910	✓	0	L	X		
03	TH-VBC-018		0915	✓	0	L	X		
04	TH-VBCD-019		0915	✓	0	L	X		
05	TH-VBCQ-020		0920	✓	0	L	X		
06	TH-VBC-021		0925	✓	0	L	X		
07	TH-VBC-022		0930	✓	0	L	X		
08	TH-VBC-023		0938	✓	0	L	X		
09	TH-VBC-024		0940	✓	0	L	X		
10	TH-VBC-025		0955	✓	0	L	X		

Comments: PCB's by USEPA 8082 via method 3540C (Soxhlet)

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)

Date/Time:

7-Day

10-Day

Other _____

Is your project MCP or RCP?

MCP Analytical Certification Form Required

RCP Analysis Certification Form Required

MA State DW Form Required PWSID # _____

Reopened by: (signature)

Date/Time:

24-Hr

48-Hr

72-Hr

4-Day

Other _____

Connecicut _____

Concrete _____

Reopened by: (signature)

Date/Time:

24-Hr

48-Hr

72-Hr

4-Day

Other _____

Connecticut _____

Concrete _____

Received by: (signature)

Date/Time:

24-Hr

48-Hr

72-Hr

4-Day

Other _____

Connecicut _____

Concrete _____

Require lab approval

Date/Time:

24-Hr

48-Hr

72-Hr

4-Day

Other _____

Connecicut _____

Concrete _____

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT

COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 6



Company Name: WADDELL & CURRAN	Telephone: 1(410) 557-8150	Project #: 224733
Address: 35 N.E. BUSINESS CT., SUITE 180 ANDOVER, MA	ANALYSIS REQUESTED	
Attention: GEORGE FRANKLIN	Client PO#	
Project Location: AMHERST, MA (UMASS - ROBIN HALL)	<input type="checkbox"/> DATA DELIVERY (check all that apply)	
Sampled By: S. Keenan, B. Crowley	<input type="radio"/> FAX <input checked="" type="radio"/> EMAIL <input type="radio"/> WEBSITE	
Project Proposal Provided? (for billing purposes) <input type="radio"/> yes <input type="radio"/> no	proposal date	
Format: <input type="radio"/> PDF <input checked="" type="radio"/> EXCEL <input type="radio"/> OGIS <input type="radio"/> OTHER		

1								# of Containers
A								** Preservation
								*** Container Code

<input type="radio"/> Field Filtered	<input type="radio"/> Dissolved Metals
<input type="radio"/> Lab to Filter	<input type="radio"/> R = Other

PCB's (Soxhlet Extraction)	**Preservation
I = Iced	H = HCl
M = Methanol	N = Nitric Acid
S = Sulfuric Acid	B = Sodium bisulfate
X = Na hydroxide	T = Na thiosulfate
O = Other	

R.L. ≤ 1.0 mg/kg.	*Matrix Code: GW = groundwater WW = wastewater DW = drinking water A = air S = soil/solid SL = sludge O = other
Comments: PCB's by USEPA 8082 via Method 3540c (Soxhlet)	
Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:	

Con-Test Lab ID	Client Sample ID / Description	Collection		*Matrix Conc Code	
		Beginning Date/Time	Ending Date/Time	Composite	Grab
11	TH-VBC-026	7/15/11	10:05	✓	0 L K
12	TH-VBC-027			✓	0 L X
13	TH-VBC-028			✓	0 L X
14	TH-VBC-029			✓	0 L X
15	TH-VBC-030			✓	0 L X
16	TH-VBC-031			✓	0 L X
17	TH-VBC-032			✓	0 L X
18	TH-VBC-033			✓	0 L X
19	TH-VBC-034			✓	0 L X
20	TH-VBC-035			✓	0 L X

Comments:

PCB's by USEPA 8082 via Method 3540c (Soxhlet)

Please use the following codes to let Con-Test know if a specific sample

may be high in concentration in Matrix/Conc. Code Box:

...H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)

Date/Time: **7/15/11**

Turnaround ^{††}

7-Day

10-Day

Other _____

Massachusetts:

Connecticut:

RUSH [†]

Date/Time: **7/15/11**

24-Hr 48-Hr

72-Hr 4-Day

Other _____

Other _____

Received by: (signature)

Date/Time:

Require lab approval

Other _____

Company Name: Woodard + Current
 ANALYTICAL LABORATORY
 www.contestlabs.com

 Address: 35 NE. Business Cir., Suite 180 Telephone: 1(978)557-8500
 Project # 224733

 Attention: ANDOVER, MA
GEORGE FRENKEL

 Project Location: Amherst, MA UMASS-TOBIN HALL
 Sampled By: S. Keenan, B. Gregory

 Project Proposal Provided? (for billing purposes)
 Yes _____ proposal date

Client PO#

DATA DELIVERY (check all that apply)

 FAX

 EMAIL

 WEBSITE

 Fax # 413-525-2332

 Email: janele@contestlabs.com

 Format: PDF

 EXCEL

QGIS

 OTHER

"Enhanced Data Package"

PCB's

(Soillet Extraction)

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CHAIN OF CUSTODY RECORD

 39 Spruce Street
 East Longmeadow, MA 01028

 Page **4** of **6**

Company Name: Woodard & Curren	Telephone: (417)557-8150
Address: 35 NE. BUSINESS CT., SUITE 180	Project #: 224733
Attention: GEORGE FRANKLIN	Client PO#
Project Location: Amherst, MA (UMASS - TOBIN HALL)	DATA DELIVERY (check all that apply) <input type="checkbox"/> FAX <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> WEBSITE
Sampled By: S. Keene, B. McCarthy	Fax #: franklin@woodardcurren.com Email: jwmcrae@woodardcurren.com
Project Proposal Provided? (for billing purposes) <input type="radio"/> yes <input type="radio"/> proposal date	Format: <input checked="" type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> OGIS <input type="checkbox"/> OTHER "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab Date/Time	*Matrix Conc. Code	Conc. Code
31	TH-VBC-046	7/15/11	1159		✓ 0	L	X
32	TH-VBC-047			1205	✓ 0	L	X
33	TH-VBC-048			1210	✓ 0	L	X
34	TH-VBC-049			1215	✓ 0	L	X
35	TH-VBC-050			1220	✓ 0	L	X
36	TH-VBC-051			1225	✓ 0	L	X
37	TH-VBC-052			1230	✓ 0	L	X
38	TH-VBC-053			1235	✓ 0	L	X
39	TH-VBC-054			1240	✓ 0	L	X
40	TH-VBC-055			1245	✓ 0	L	X

Comments: PCB's by USEPA 8082 via 3540c (Soxhlet Extraction)

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix Conc. Code Box:

 R.L. $\leq 1.0 \text{ mg/kg}$

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) <i>George Keene, PA</i>	Date/Time: 7/15/11	Turnaround	Detection Limit Requirements	Is your project MCP or RCP?
Received by: (signature) <i>P. O. & O.</i>	Date/Time: 7/15/11	<input type="checkbox"/> 7-Day <input type="checkbox"/> 10-Day <input checked="" type="checkbox"/> Other _____ RUSH	Massachusetts: Connecticut: Other:	<input type="radio"/> MCP Analytical Certification Form Required <input type="radio"/> RCP Analysis Certification Form Required <input type="radio"/> MA State DW Form Required PWSID # _____
Received by: (signature)	Date/Time:	<input type="checkbox"/> †24-Hr <input checked="" type="checkbox"/> 48-Hr <input type="checkbox"/> †72-Hr <input type="checkbox"/> †4-Day <input type="checkbox"/> Other:	Other: † Require lab approval	

 *Matrix Code:
 A = air
 S = soil/solid
 SL = sludge
 DW = drinking water
 GW = groundwater
 WW = wastewater
 DW = drinking water
 A = air
 S = soil/solid
 SL = sludge
 DW = drinking water
 CONCRETE

 ACCREDITED IN ACCORDANCE WITH THE
 NELAC ANALYTICAL TEST METHODS
 AND THE NELAC CODE OF PRACTICE
 FOR ENVIRONMENTAL ANALYSIS
 AND FIELD SAMPLING

 ACCREDITED LABORATORY
 IN ACCORDANCE WITH THE
 AIHA STANDARDS FOR
 ENVIRONMENTAL ANALYSIS
 AND FIELD SAMPLING

 NELAC & AIHA Certified
 WBEDBE Certified

TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 5 of 6

Company Name: WOODWARD + CURRAN		Telephone: (1978) 557-8150	Project #: 224733	ANALYSIS REQUESTED	
Address: 35 N.E. Business Ctr., Suite 180					
Attention: GEORGE FRANKLIN				Dissolved Metal	
Project Location: AMHERST, MA (Mass - Tobin HLL)				<input type="checkbox"/> Field Filtered	
Sampled By: S. Kelen, B. Bellomy				<input checked="" type="checkbox"/> Lab to Filter	
Project Proposal Provided? (for billing purposes) <input type="radio"/> yes <input type="radio"/> no proposal date				***Cont. Code:	
				A=Amber glass	G=glass
				P=plastic	ST=sterile
				V=vial	S=summary can
				T=teddar bag	O=Other
Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection	*Matrix Code	Composite Grab Date	Conc. Units
41	TH-VBC-056	11511	X	0	L ✓
42	TH-VBC-057	1250	X	0	L ✓
43	TH-VBC-058	1255	X	0	L ✓
44	TH-VBCD-059	1300	X	0	L ✓
45	TH-VBCD-060	1305	X	0	L ✓
46	TH-VBC-061	1310	X	0	L ✓
47	TH-VBC-062	1315	X	0	L ✓
48	TH-VBC-063	1320	X	0	L ✓
49	TH-VBC-064	1325	X	0	L ✓
50	TH-VBC-065		X	0	L ✓
Comments: PCB's by WSEPA 8082 is method 3540c (Solvut) R.L. = 1.0 mg/kg					
<p>Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:</p> <p>H - High; M - Medium; L - Low; C - Clean; U - Unknown</p>					
Relinquished by: (signature) <i>George Franklin</i>	Date/Time: 7/15/11	Turnaround 7-Day	Detection Limit Requirements		
Received by: (signature) <i>Paula</i>	Date/Time: 7/15/11	10-Day	Is your project MCP or RCP?		
Relinquished by: (signature)	Date/Time:	Other _____ RUSH*	<input type="radio"/> MCP Analytical Certification Form Required <input type="radio"/> RCP Analysis Certification Form Required <input type="radio"/> MA State DW Form Required PWSID # _____		
Received by: (signature)	Date/Time:	☐ †24-Hr ☐ 48-Hr ☐ †72-Hr ☐ 4-Day <small>*Require lab approval</small>			Other: _____
 NELAC & AIHA Certified WBE/DBE Certified					



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 6 of 6

Company Name: WOODWARD & CLARK
Address: 35 N.E. BUSINESS CT., SUITE 180
Project Location: ANDOVER, MA
Sampled By: S. Keenan, B. Gregory

Telephone: 1(978)557-8150
Project #: 224733
Client POF#

Attention: GEORGE FRANKLIN
Project Proposal Provided? (for billing purposes)
 Yes proposal date

DATA DELIVERY (check all that apply)
 FAX EMAIL WEBSITE
Fax # gfranklin
Email: jhamel@woodward-clark.com

Format: PDF EXCEL OASIS
 OTHER
 "Enhanced Data Package"

PCB's (Sorbent Sheet)

Collection

Beginning Date/Time

Ending Date/Time

Composite Grab

*Matrix Date/Cone

Cone/Cone

K O L V

of Containers
***Preservation
***Container Code
Dissolved Metals
○ Field Filtered
○ Lab to Filter

A=ambar glass
G=glass
P=plastic
ST=sterile
V=vial
S=summary can
T=tederal bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW=groundwater
WW=wastewater
DW=drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: PCB's by USEPA 8082 via 3540c (Sorbent Sheet)		Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:	
R.L. ≤ 1.0 mg/kg		H - High; M - Medium; L - Low; C - Clean; U - Unknown	
Relinquished by: (signature) <u>R. L. Keenan</u>		Date/Time: <u>7/15/11</u>	Turnaround ††
		<input type="checkbox"/> 7-Day	Detection Limit Requirements
		<input type="checkbox"/> 10-Day	Massachusetts:
		<input checked="" type="checkbox"/> Other _____	
Received by: (signature) <u>R. L. Keenan</u>		Date/Time: <u>7/15/11</u>	Connecticut:
Relinquished by: (signature)		Date/Time: <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> 124-Hr <input type="checkbox"/> 48-Hr <input type="checkbox"/> 72-Hr <input type="checkbox"/> 4-Day	
Received by: (signature)		Date/Time: [†] Require lab approval	Other:

Is your project MCP or RCP?

- MCP Analytical Certification Form Required
- RCP Analysis Certification Form Required
- MA State DW Form Required PWSID # _____



NELAC & AIHA Certified

WBEDBE Certified

† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com



Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: SD DATE: 7/15/11

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice Direct from Sampling Ambient In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.9

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 1Q

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>10</u>	8 oz amber/clear jar	<u>24</u>
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	<u>24</u>	2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A

Doc# 277

Do all samples have the proper Base pH: Yes No N/A

Rev. 1 May 2011

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	11G0410
Project Location:	Amherst, MA (UMASS - Tobin Hall)	RTN:	

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11G0410-01 thru 11G0410-51

Matrices: Product/Solid Water

CAM Protocol (check all that below)

8260 VOC CAM II A ()	7470/7471 Hg CAM IIIB ()	MassDEP VPH CAM IV A ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()
8270 SVOC CAM II B ()	7010 Metals CAM III C ()	MassDEP EPH CAM IV A ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()
6010 Metals CAM III A ()	6020 Metals CAM III D ()	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlorate CAM VIII B ()	

Affirmative response to Questions A through F is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:		Position:	Laboratory Director
Printed Name:	Michael A. Erickson	Date:	07/19/11

11G0410-01**TH-VBC-016**

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.875	0.92684	5.75
Decachlorobiphenyl	0.876	0.825245	5.97

11G0410-02**TH-VBC-017**

Analyte	Results		%RPD
Aroclor-1248 [2C]			
Aroclor-1248	0.13	0.1236238	5.03
Aroclor-1254	0.12	0.1151143	4.16
Surrogates			
Decachlorobiphenyl	0.826	0.7801381	5.71
Tetrachloro-m-xylene	0.841	0.8831048	4.88

11G0410-03**TH-VBC-018**

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.920	0.8717227	5.39
Tetrachloro-m-xylene	0.963	1.013755	5.14

11G0410-04**TH-VBCD-019**

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.890	0.9423429	5.71
Decachlorobiphenyl	0.823	0.7782429	5.59

11G0410-06**TH-VBC-021**

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.855	0.7987363	6.8
Tetrachloro-m-xylene	0.919	0.9684227	5.24

11G0410-07**TH-VBC-022**

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.765	0.7183239	6.29
Tetrachloro-m-xylene	0.796	0.8330762	4.55

11G0410-08**TH-VBC-023**

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.739	0.6939609	6.29
Tetrachloro-m-xylene	0.733	0.7808826	6.33

11G0410-09**TH-VBC-024**

Analyte	Results		%RPD
Surrogates			
Aroclor-1248	0.14	0.1286727	8.43
Decachlorobiphenyl	0.972	0.8954682	8.2
Tetrachloro-m-xylene	0.948	0.9550364	0.739

11G0410-10**TH-VBC-025**

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.850	0.7908318	7.21
Tetrachloro-m-xylene	0.846	0.8974136	5.9

11G0410-11**TH-VBC-026**

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.902	0.8410953	6.99
Tetrachloro-m-xylene	0.899	0.9493286	5.45

11G0410-12

TH-VBC-027

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.951	0.8851565
Tetrachloro-m-xylene	0.998	1.053535

11G0410-13

TH-VBC-028

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.714	0.6613218
Tetrachloro-m-xylene	0.703	0.7397565

11G0410-14

TH-VBC-029

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.941	0.8889
Tetrachloro-m-xylene	0.893	0.94245

11G0410-15

TH-VBC-030

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.916	0.84891
Tetrachloro-m-xylene	0.953	1.00041

11G0410-16

TH-VBC-031

Analyte	Results	%RPD
Surrogates		
Tetrachloro-m-xylene	0.833	0.8730524
Decachlorobiphenyl	0.836	0.7739953

11G0410-17

TH-VBC-032

Analyte	Results	%RPD
Aroclor-1254 [2C]	0.14	0.12671
Surrogates		
Decachlorobiphenyl	0.985	0.908115
Tetrachloro-m-xylene	1.02	1.057905

11G0410-18

TH-VBC-033

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.817	0.760574
Tetrachloro-m-xylene	0.830	0.8624479

11G0410-19

TH-VBC-034

Analyte	Results	%RPD
Surrogates		
Tetrachloro-m-xylene	0.873	0.924035
Decachlorobiphenyl	0.928	0.863475

11G0410-20

TH-VBC-035

Analyte	Results	%RPD
Surrogates		
Tetrachloro-m-xylene	0.803	0.8561318
Decachlorobiphenyl	0.822	0.7627045

11G0410-21

TH-VBC-036

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.773	0.7706429
Tetrachloro-m-xylene	0.853	0.922662

11G0410-22

TH-VBC-037

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.792	0.791925
Tetrachloro-m-xylene	0.981	1.07263

11G0410-23

TH-VBC-038

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.709	0.7110454
Tetrachloro-m-xylene	0.861	0.9415909

11G0410-24

TH-VBCD-039

Analyte	Results	%RPD
Surrogates		
Tetrachloro-m-xylene	0.854	0.9213913
Decachlorobiphenyl	0.708	0.7071261

11G0410-26

TH-VBC-041

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.846	0.8371858
Tetrachloro-m-xylene	0.909	0.9750572

11G0410-27

TH-VBC-042

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.716	0.7214191
Tetrachloro-m-xylene	0.882	0.9681477

11G0410-28

TH-VBC-043

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.782	0.7814334
Tetrachloro-m-xylene	0.925	0.9907048

11G0410-29

TH-VBC-044

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.759	0.7561681
Tetrachloro-m-xylene	0.851	0.9303772

11G0410-30

TH-VBC-045

Analyte	Results	%RPD
Surrogates		
Tetrachloro-m-xylene	0.859	0.9195545
Decachlorobiphenyl	0.863	0.8570454

11G0410-31

TH-VBC-046

Analyte	Results	%RPD
Surrogates		
Tetrachloro-m-xylene	0.808	0.8781044
Decachlorobiphenyl	0.760	0.772513

11G0410-32

TH-VBC-047

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.864	0.8756096
Tetrachloro-m-xylene	0.867	0.9558667

11G0410-33

TH-VBC-048

Analyte	Results	%RPD
Surrogates		

Decachlorobiphenyl	0.698	0.716159	2.57
Tetrachloro-m-xylene	0.861	0.9574818	10.6

11G0410-34 TH-VBC-049

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.630	0.6513636
Tetrachloro-m-xylene	0.812	0.8936273

11G0410-35 TH-VBC-050

Analyte	Results	%RPD
Aroclor-1254	0.54	0.5683392
Aroclor-1248	0.31	0.3474261
Surrogates		
Decachlorobiphenyl	0.673	0.6931174
Tetrachloro-m-xylene	0.808	0.8905435

11G0410-36 TH-VBC-051

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.691	0.7087826
Tetrachloro-m-xylene	0.858	0.9414652

11G0410-37 TH-VBC-052

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.863	0.883115
Tetrachloro-m-xylene	0.994	1.10211

11G0410-38 TH-VBC-053

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.809	0.82671
Tetrachloro-m-xylene	0.925	1.03681

11G0410-39 TH-VBC-054

Analyte	Results	%RPD
Aroclor-1248	0.21	0.26705
Aroclor-1254	0.30	0.3161
Surrogates		
Decachlorobiphenyl	0.814	0.82891
Tetrachloro-m-xylene	0.946	1.05408

11G0410-40 TH-VBC-055

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.757	0.771215
Tetrachloro-m-xylene	0.965	1.071035

11G0410-41 TH-VBC-056

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.594	0.58289
Tetrachloro-m-xylene	0.593	0.598555

11G0410-42 TH-VBC-057

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.973	0.953135
Tetrachloro-m-xylene	0.952	0.952905

11G0410-43 TH-VBC-058

Analyte	Results	%RPD
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Surrogates

Decachlorobiphenyl	0.421	0.422881	0.446
Tetrachloro-m-xylene	0.412	0.4202096	1.97

11G0410-44

TH-VBCD-059

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.693	0.6807191
Tetrachloro-m-xylene	0.734	0.7335715

11G0410-46

TH-VBC-061

Analyte	Results	%RPD
Surrogates		
Tetrachloro-m-xylene	0.855	0.8531144
Decachlorobiphenyl	0.853	0.8343715

11G0410-47

TH-VBC-062

Analyte	Results	%RPD
Aroclor-1248	0.13	0.1290478
Aroclor-1254	0.099	9.336087E-02
Surrogates		
Decachlorobiphenyl	0.423	0.4152217
Tetrachloro-m-xylene	0.432	0.4382652

11G0410-48

TH-VBC-063

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.751	0.7342091
Tetrachloro-m-xylene	0.799	0.7949864

11G0410-49

TH-VBC-064

Analyte	Results	%RPD
Aroclor-1248 [2C]	0.32	0.3029048
Aroclor-1254 [2C]	0.31	0.258581
Surrogates		
Decachlorobiphenyl	0.950	0.9132048
Tetrachloro-m-xylene	0.913	0.9113476

11G0410-50

TH-VBC-065

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.643	0.63313
Tetrachloro-m-xylene	0.662	0.675785

11G0410-51

TH-VBC-066

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	1.01	0.9788525
Tetrachloro-m-xylene	1.03	1.027548

B033772-BLK1

Blank

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	0.948	0.894855
Tetrachloro-m-xylene	0.916	0.981635

B033772-BS1

LCS

Analyte	Results	%RPD
Aroclor-1016	0.25	0.28488
Aroclor-1260	0.25	0.259325
Surrogates		
Tetrachloro-m-xylene	0.872	0.938155
Decachlorobiphenyl	0.937	0.887305

B033772-BSD1**LCS Dup**

Analyte	Results	%RPD
Aroclor-1016	0.25	0.2776
Aroclor-1260	0.24	0.24975
Surrogates		
Decachlorobiphenyl	0.889	0.83571
Tetrachloro-m-xylene	0.876	0.954685

B033772-MS1**Matrix Spike**

Analyte	Results	%RPD
Aroclor-1260	0.22	0.2258261
Aroclor-1016	0.23	0.2652522
Surrogates		
Tetrachloro-m-xylene	0.792	0.8481
Decachlorobiphenyl	0.827	0.7657261

B033772-MSD1**Matrix Spike Dup**

Analyte	Results	%RPD
Aroclor-1260	0.26	0.2726143
Aroclor-1016	0.29	0.3292143
Surrogates		
Decachlorobiphenyl	0.941	0.8860477
Tetrachloro-m-xylene	0.901	0.9542952

B033774-BLK1**Blank**

Analyte	Results	%RPD
Surrogates		
Decachlorobiphenyl	1.01	0.987755
Tetrachloro-m-xylene	1.18	1.240985

B033774-BS1**LCS**

Analyte	Results	%RPD
Aroclor-1260	0.30	0.32376
Aroclor-1016	0.30	0.349415
Surrogates		
Decachlorobiphenyl	1.02	1.0014
Tetrachloro-m-xylene	1.33	1.387515

B033774-BSD1**LCS Dup**

Analyte	Results	%RPD
Aroclor-1260	0.31	0.33956
Aroclor-1016	0.30	0.348605
Surrogates		
Decachlorobiphenyl	1.06	1.04656
Tetrachloro-m-xylene	1.28	1.35121

B033774-MS1**Matrix Spike**

Analyte	Results	%RPD
Aroclor-1016	0.24	0.2622826
Aroclor-1260	0.21	0.2401043
Surrogates		
Decachlorobiphenyl	0.615	0.6272957
Tetrachloro-m-xylene	0.892	0.9697696

B033774-MSD1**Matrix Spike Dup**

Analyte	Results	%RPD
Aroclor-1016	0.26	0.2696636
Aroclor-1260	0.23	0.2584091
Surrogates		
Tetrachloro-m-xylene	0.897	1.002682
Decachlorobiphenyl	0.686	0.6917455

B033777-BLK1**Blank**

Analyte	Results	%RPD
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Surrogates

Decachlorobiphenyl	0.942	0.920455	2.31
Tetrachloro-m-xylene	0.940	0.9362	0.405

B033777-BS1**LCS**

Analyte	Results	%RPD	
Aroclor-1016	0.24	0.26792	11
Aroclor-1260	0.24	0.259585	7.84
Surrogates			
Decachlorobiphenyl	0.849	0.832005	2.02
Tetrachloro-m-xylene	0.834	0.830455	0.426

B033777-BSD1**LCS Dup**

Analyte	Results	%RPD	
Aroclor-1260	0.23	0.250795	8.65
Aroclor-1016	0.24	0.270795	12.1
Surrogates			
Decachlorobiphenyl	0.895	0.877865	1.93
Tetrachloro-m-xylene	0.911	0.90837	0.289

B033777-MS1**Matrix Spike**

Analyte	Results	%RPD	
Aroclor-1016	0.17	0.2158	23.7
Aroclor-1260	0.20	0.21065	5.19
Surrogates			
Decachlorobiphenyl	0.801	0.7861773	1.87
Tetrachloro-m-xylene	0.782	0.7731727	1.14

B033777-MSD1**Matrix Spike Dup**

Analyte	Results	%RPD	
Aroclor-1016	0.22	0.23533	6.73
Aroclor-1260	0.21	0.22929	8.78
Surrogates			
Tetrachloro-m-xylene	0.850	0.842105	0.933
Decachlorobiphenyl	0.861	0.843425	2.06